

TELEPHONE
1852
NUMBER

THE CHEMIST AND DRUGGIST

TELEGRAPHIC
ADDRESS
CHEMISTS LONDON

CHIEF OFFICE,
LONDON:
42 CANNON ST.
E.C.

ESTABLISHED IN

Branch Offices:
MELBOURNE
and
SYDNEY.

ENGLAND ... 1859. AUSTRALASIA ... 1885.

[Registered as a Newspaper.]

[Registered for Foreign Transmission.]

Prix de l'abonnement:—The Chemist and Druggist
une fois par semaine, et l'agenda du Chemist and
Druggist une fois par an, 12.50 francs par an,
franco.

Abonnementspreis:—The Chemist and Druggist
einmal wöchentlich, und Notizkalender des
Chemist and Druggist einmal im Jahre, 10 Mark
jährlich, frei in's Haus geliefert

Precio de suscripcion:—The Chemist and Druggist
una vez por semana, y el Agenda del Chemist and
Druggist una vez al año, 12.50 pesetas anuales
franco.

No. 782. Vol. XLVI.

APRIL 13, 1895.

{Subscription, 10s. per Annum, including
Diary, Post Free the World over.
Single Copies, 4d. each, Post Free.

"ZYMINE" PEPTONISING POWDERS (Fairchild).

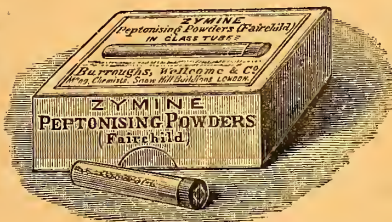
WHEN the very young baby has to be fed artificially, the question of preparing its food in such a way that it is adapted to the infantile powers of digestion is of very special importance. The rational food for infants is naturally mothers' milk, but when this is not available, recourse must be had to cows' milk. Now cows' milk by itself and unprepared, is completely impossible of digestion by the infant stomach, but by means of "Zymine" Peptonising Powders it may be made to resemble



mothers' milk in every particular, forming fine flakes instead of curds when acted upon by the digestive juices, and agreeing when everything else is rejected. The process of peptonisation is extremely simple, and can be carried out by the most inexperienced of nursemaids. *The British Medical Journal* reported:—"The introduction of 'Zymine' Peptonising Powders has probably done more than any other therapeutic measure of recent times to lessen infant mortality." For the preparation of all manner of foods for invalids with weakened digestive powers, the peptonising powders are singularly well adapted. In each box of powders is enclosed a brochure giving numerous recipes.

"Zymine" Peptonising Powders supplied to the Trade in boxes containing one dozen tubes at 14/- per dozen boxes.

BURROUGHS, WELLCOME & Co., Manufacturing Chemists, Snow Hill Buildings, LONDON, E.C.
Cable and Telegraphic Address: "BURCOMBE LONDON."



Allen & Hanburys Ltd.

Are now offering and will be happy to furnish samples and prices by return of post of the following lines now much in demand:—

Cod=Liver Oil.

The finest Norwegian Oil, manufactured at Allen & Hanburys' own factories at Longva and Kjerstad, Norway.

This Oil can be had in 25-gallon barrels as imported, in $\frac{1}{2}$ -gallon bottles, or put up in bottles of any size, and supplied with or without labels and cartons.

Both of the above may be so labelled that Customers may adopt them as their own Specialities.

Malt and Oil.

Both ingredients are of Allen & Hanburys' own manufacture, and in perfect combination.

The superiority of Allen & Hanburys' Malt Extract is vouchsafed in the valuable testimony of the leading Medical Journals, whilst the very large and constantly increasing demand is gratifying evidence that the care bestowed upon its manufacture is appreciated.

Malt and Oil in bulk can be had in any quantity and in wide-mouthed amber bottles of any size and shape, with or without labels and cartons.

Jujubes and Pastilles.

Of agreeable flavours, made in any colour or shape. Any Speciality made exclusively if a quantity of not less than 50 lbs. be ordered at a time.

Medicated Throat Pastilles.

In 1-lb. bottles, in 49 varieties.

Superior upright Showcases. Frames fitted with glass shelves, silvered glass backs, and lettered in gold. Price and further particulars, also new and handsome Show Cards, on application.

Allen & Hanburys, Ltd. Plough Court, London.
Lombard Street.

Laboratories & Warehouse: BETHNAL GREEN, LONDON, E. West End Branch: VERE ST., CAVENDISH SQUARE, W.
Cod Liver Oil Factories: LONGVA & KJERSTAD, NORWAY. Australian Agency: 484, COLLINS ST., MELBOURNE.

Surgical Instruments: 48 WIGMORE STREET, CAVENDISH SQUARE, LONDON, W.

MAY & BAKER, LTD.

GARDEN WHARF,
BATTERSEA, LONDON, S.W.



Telegraphic Address—"BISMUTH LONDON."
A B C Code Used.

ESTABLISHED
OVER 60 YEARS.

Telephone No. 9003.

CAMPHOR	-	-	-	Finest <u>REFINED</u> <u>TRANSPARENT</u> Tablets, Bells, and Flowers.
MERCURIALS	-	-	-	Medicinal, General, and for Anti-fouling and Kyanising purposes.
ÆTHERS	-	-	-	Acetic, Butyric, Methylated, and Rectified of all strengths.
BISMUTH	-	-	-	Carbonate, Cosmetic, Citrate, Subnitrate, and all Salts.
SCALE PREPARATIONS				Ferri et Ammon. Citras, Ferri et Quin. Citras, Bismuth Ammon. Citras, &c.
HYDROGEN PEROXIDE	-	-	-	10 12, and 20 Vols.
AMYL ACETATE	-	-	-	Amyl Butyrate.
ESSENCES	-	-	-	Pear, Raspberry, Pineapple, &c., &c.

PERCHLORIDE OF IRON, CRYST. & SOLUTION.

Recrystallised Epsom and Glauber Salts.

AND ALL PHARMACEUTICAL AND GENERAL CHEMICALS.

STEVENSON & HOWELL

STANDARD
WORKS
95A SOUTHWARK ST.

Manufacturing Chemists, Distillers & Importers of

BRITISH PHARMACOPOEIA
ESSENTIAL OILS
OF GUARANTEED PURITY

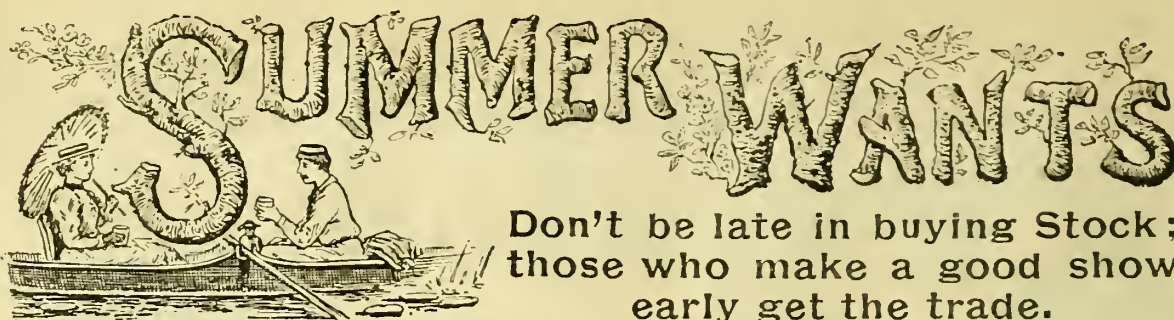
OL. ANETHI ANG.	OL. JUNIPERI ANG.
OL. ANISI STEL.	OL. LAVANDULÆ ANG.
OL. ANTHEM ANG.	OL. LIMONIS SELECT
OL. CAJUPUTI	OL. MENTHÆ PIP. ANG.
OL. GARUI ANG.	OL. MENTHÆ VIRIDIS
OL. CARYOPHYLLI	OL. MYRISTICÆ ANG.
OL. CINNAM. CORT.	OL. MYRISTICÆ EXP.
OL. COPAIBÆ	OL. PIMENTÆ ANG.
OL. CORIANDRI ANG.	OL. PINI SYLVESTRIS
OL. CROTONIS	OL. ROSMARINI
OL. CUBEBAÆ ANG.	OL. RUTÆ
OL. EUCALYPTI GLOB.	OL. SABINÆ
	OL. SANTAL ANG.
	OL. SINAPIS ANG.

SELECTED
OIL OF LEMON
GUARANTEED
ABSOLUTELY PURE

Stevenson & Howell, Standard Works

95A, SOUTHWARK STREET, LONDON, S.E.

DISTILLERY
OLD PARIS
GARDENS,
LONDON S.E.



Don't be late in buying Stock;
those who make a good show
early get the trade.

GRAPE JUICE SALINE.

8 oz. Cheltenhams, Plug Stopper, each in cartoon	8/- doz.
6-oz. Cheltenhams, White Glass, with attractive label	4/6 "
4-oz. Tins, self-opening, with coloured label	2/6 "

This Saline is thoroughly dried; will keep well.

SEIDLITZ POWDERS.

Guaranteed prepared according to the British Pharmacopœia English Acid. Each Powder weighed, good paper, and neatly wrapped.

In Lift-off Lid Boxes	4/6 doz.
1-gross Boxes, with buyer's name, 52/-	

SPECIAL.—In Embossed Hinged Box, Howard's Pulv, Seidlitz, fancy wrapper ... 4/9 "

1-gross Boxes, 4/6; or with name on wrapper and label, 4/9 doz.

GRAPE JUICE SALINE POWDERS.

Wrapped as Seidlitz Powders	3/6 doz.
1-gross Boxes, 3/- doz.	

These bear no name or brand.

EFFERVESCENT CITRATE MAGNESIA. Good Quality.

6-oz. Dark Blue Flats	3/- doz.
12-oz. " " with Plug Stopper	6/6 "
1-lb. Kalis, actual weight	3/9 "
1-lb. " "	6/6 "
1-lb. " "	10/9 "

Special prices for quantities of 1 gross and upwards.

THE ACME LLOOFAH BATH MAT

Is a real luxury; it is always dry and warm to the feet.
In two sizes, 18/- and 21/- doz.

LLOOFAHS.

Small, 1/-; Good, 3/-; Very Fine, 6/- doz.

CARBOLIC POWDER.

1d. Packets, half-gross boxes	6/6 gross.
4d. Tins, attractive wrapper	2/- doz.
6d. " decorated black and gold	3/6 "
1/- " " " "	6/6 "

This bears no name, only Acme Brand.

INSECT POWDER.

1d. black and gold, decorated tins	5/- gross.
3d. attractively-labelled tins	12/- "
6d. " " " "	24/- "
1/- " " " "	39/- "

Bears no name, only Acme Brand.

Full List on application. New Accounts must be accompanied by reference or remittance.

HOCKIN, WILSON & CO.
Wholesale Druggists & Druggists' Sundriesmen,
13 to 16 New Inn Yard, Tottenham Court Road, LONDON, W.

Telegraphic Address—"IODINE LONDON."

Telephone No. 4070.

AWARDS—LONDON, 1881; VIENNA, 1883; CALCUTTA, 1884; CHICAGO, 1893.

H. E. Stevenson & Co.

Successors to the General Export Business
of Fletcher, Fletcher & Stevenson.

130 Southwark St., London.

SOME OF OUR PRINCIPAL MANUFACTURES, ETC., FOR WHICH CLOSE PRICES WILL BE GIVEN.

Having extensive premises—six floors—fully equipped with complete steam plant, we have every facility for dealing expeditiously with large orders, and invite correspondence, especially from foreign buyers; it will cost nothing, and may be advantageous to you to receive our lists regularly.

Beechwood Creasote.

Pale straw colour, purest. Price greatly reduced.

Zinc Oxide, Pure.

Made by direct combustion of the metal. There can be nothing finer than our better qualities in the market.

Coca Extract, Miscible.

For the preparation of Coca Wine, as supplied to some of the largest consumers.

Cinchona Ext. „

1 part to 7 forms Sp. Etheris Nit., B.P. Price 5s. per lb., or 50, 1-lbs. in Bond, 3s. 6d. per lb., net.

Liquor Etheris Nit.

FOR EXPORT we have special stoppered bottles made for us, the mouth of which is only about the size of a black-lead pencil.

Ether for Ice Factories.

Pro-forma invoices given c.i.f. any port. We hold contracts from some of the largest Ice Works in the world.

Cocaine Salts, puriss.

First manufactured by us in 1885, answers every test.

Pepsine (Porci, etc.). Phosphoric Acid, 1.750. Morphia Salts.

~~~~~ IMPORTERS OF ~~~~~  
COPAIBA BALSAM (Maranham). CHAULMOOGRA OIL.

COD-LIVER OIL. \*EUCALYPTUS OIL.

SAFFRON. INSECT POWDER. OTTO OF ROSE.

ESSENCE OF LEMON AND BERGAMOT.

In beautiful little coppers of 1 lb. and 2 lbs. each.

## Coca Tonic Wine. ("Othniel")

Retails at 3/6 per Bottle, Imperial Pints.

Wholesale 25 = per dozen.

„ 2/- „ „ Half-pints.

„ 14/- „

LIBERAL TERMS. BEAUTIFULLY GOT-UP. BUYERS' NAMES BY ARRANGEMENT.



63 % to 87 %  
Profit  
if sold at  
full  
Retail Prices.

# SPECIAL EASTER OFFER.

40 % to 56 %  
Profit  
if sold at  
minimum  
Cutting Prices.



A discount of 19 to 20 per cent. off our Trade Prices.

The most liberal offer ever made to the Trade.

The most profitable lines in the English Market.

Large Demand, Ready Sale, Quick Turnover.

 FOR LIST OF SPECIAL OFFER GOODS 

 SEE FOLLOWING PAGE. 

## CONDITIONS AND TERMS.

*On orders under £2, 10 per cent. discount, 10 days, and charges for carriage forward, both Suburban and Country Orders.*

*On orders of from £2 to £5, 20 per cent. discount, 10 days, and carriage paid.*

The 20 per cent will not be conceded on any order or orders beyond the value of £5.

GOODS ORDERED ON THE ABOVE TERMS WILL NOT BE RETURNABLE.

BLONDEAU ET CIE., Ryland Road, N.W.

March 22nd, 1895.



| SPECIAL-OFFER GOODS.<br>(See preceding page.)                                                                                                                                            | Full<br>Retail Price | Minimum<br>Cutting Price                                           | Usual<br>Trade Price | Special-Off,<br>Price Net, after<br>Deduction of<br>all Discounts                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------|
| <b>Premier Vinolia Soap</b> ... ..<br><i>One-third only of the quantity ordered will be put<br/>up in boxes each containing 3 tablets. The remainder<br/>will be in 36 tablet boxes.</i> | 1/-                  | 10d.                                                               | 9/2                  | 7/5                                                                              |
| <b>Premier Vinolia Shaving Sticks</b> ... ..                                                                                                                                             | 6d.                  | 5d.                                                                | 4/-                  | 3/2                                                                              |
| <b>Premier Vinolia Shaving Cakes</b> ... ..                                                                                                                                              | 1/-                  | 10d.                                                               | 8/-                  | 6/4                                                                              |
| <b>Toilet Vinolia Shaving Sticks</b> ... ..                                                                                                                                              | 1/-                  | 10d.                                                               | 9/2                  | 7/4                                                                              |
| <b>Vinolia Dentifrice, No. 2 (Premier)</b> ... ..                                                                                                                                        | 6d., 1/-             | 5d., 10d.                                                          | 4/-, 8/-             | 3/2, 6/4                                                                         |
| <b>Vinolia Medicated Soaps—</b><br>Sulphur, Ierebene, Carbolic, Coal Tar ... ..                                                                                                          | 1/-                  | 3½d. per tablet,<br>10d. per box of 3                              | 9/-                  | 7/2                                                                              |
| <b>Vinolia Soap (Floral)</b> ... ..                                                                                                                                                      | 1/6                  | 5d. per tablet,<br>1/3 per box of 3                                | 13/9                 | 11/-                                                                             |
| <b>" " " (12-tablet boxes), each tablet in cartoon</b>                                                                                                                                   | 6/-                  | 5d. per tablet                                                     | 4/7                  | —                                                                                |
| <b>Blondeau Toilet Soaps, with favourite perfumes—</b>                                                                                                                                   |                      |                                                                    |                      |                                                                                  |
| Blondeau Cucumber and Glycerine Soap ... ..                                                                                                                                              | 1/6                  | 4½d. per tablet,<br>1/1½ per box of 3                              | 12/-                 | 9/7                                                                              |
| " Baby Soap ... ..                                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| " Cold Cream Soap ... ..                                                                                                                                                                 |                      |                                                                    |                      |                                                                                  |
| " Lys de France Soap ... ..                                                                                                                                                              |                      |                                                                    |                      |                                                                                  |
| " Maréchal Niel Soap ... ..                                                                                                                                                              |                      |                                                                    |                      |                                                                                  |
| " Oriental Soap ... ..                                                                                                                                                                   |                      |                                                                    |                      |                                                                                  |
| " Heliotrope Soap ... ..                                                                                                                                                                 |                      |                                                                    |                      |                                                                                  |
| " Musk Lavender Soap ... ..                                                                                                                                                              | 2/-                  | 6d. per tablet,<br>1/6 per box of 3                                | 16/-                 | 12/10                                                                            |
| " Lettuce Soap ... ..                                                                                                                                                                    |                      |                                                                    |                      |                                                                                  |
| " Marequil Soap ... ..                                                                                                                                                                   |                      |                                                                    |                      |                                                                                  |
| " Jequilla Soap ... ..                                                                                                                                                                   |                      |                                                                    |                      |                                                                                  |
| " Shampoo Soap ... ..                                                                                                                                                                    |                      |                                                                    |                      |                                                                                  |
| " White Rose and Cucumber Soap ... ..                                                                                                                                                    | 2/6                  | 1/10½                                                              | 20/-                 | 16/-                                                                             |
| " Violet Soap ... ..                                                                                                                                                                     | 3/-                  | 2/3                                                                | 24/-                 | 19/2                                                                             |
| " Opoponax Soap ... ..                                                                                                                                                                   |                      |                                                                    |                      |                                                                                  |
| <b>Old English Toilet Soaps (Improved)—</b>                                                                                                                                              |                      |                                                                    |                      |                                                                                  |
| Blondeau Brown Windsor Soap ... ..                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| " Honey Soap ... ..                                                                                                                                                                      |                      |                                                                    |                      |                                                                                  |
| " Elder flower Soap ... ..                                                                                                                                                               |                      |                                                                    |                      |                                                                                  |
| " Oatmeal Soap ... ..                                                                                                                                                                    | 2/- per box of 12    | 2d. per tablet,<br>3 tablets for 5d.<br>1 box of 12<br>tablets 1/8 | 1/6                  | 1/2½                                                                             |
| " Almond and Glycerine Soap ... ..                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| " White Rose and Cucumber Soap ... ..                                                                                                                                                    |                      |                                                                    |                      |                                                                                  |
| Vinolia Pastilles, per box ... ..                                                                                                                                                        | 1/-                  | 10d.                                                               | 9/2                  | 7/4                                                                              |
| Vinolia Shaving Foam, Toilet ... ..                                                                                                                                                      | 1/-                  | 10d.                                                               | 9/2                  | 7/4                                                                              |
| " " " Vestal ... ..                                                                                                                                                                      | 1/6                  | 1/3                                                                | 13/9                 | 11/-                                                                             |
| " " " Vestal ... ..                                                                                                                                                                      | 2/6                  | 2/2                                                                | 22/10                | 18/3                                                                             |
| <b>Vinolia Brilliantine—</b>                                                                                                                                                             |                      |                                                                    |                      |                                                                                  |
| For the Hair ... ..                                                                                                                                                                      | 1/-, 2/-, 3/6        | 9d., 1/6, 2/7                                                      | 8/-, 16/-, 28/-      | 6/5, 12/10, 22/5                                                                 |
| For the Moustache ... ..                                                                                                                                                                 | 1/-, 2/-, 3/6        | 9d., 1/6, 2/7                                                      | 8/-, 16/-, 28/-      | 6/5, 12/10, 22/5                                                                 |
| <b>Vinolia Eau de Cologne—</b>                                                                                                                                                           |                      |                                                                    |                      |                                                                                  |
| No. 1. 2-oz. small bottles ... ..                                                                                                                                                        | 1/6                  | 10½d.                                                              | 9/6                  | 7/7                                                                              |
| No. 2. 4-oz. large " ... ..                                                                                                                                                              | 2/6                  | 1/7½                                                               | 17/3                 | 13/10                                                                            |
| No. 3. Small wicker " ... ..                                                                                                                                                             | 3/6                  | 2/5½                                                               | 27/3                 | 21/10                                                                            |
| No. 4. Medium " ... ..                                                                                                                                                                   | 6/6                  | 4/10                                                               | 55/-                 | 44/-                                                                             |
| <b>Lypsyl (in flat Metal Cases, without the octagonal<br/>outers) ... ..</b>                                                                                                             | 6d.                  | —                                                                  | 4/-                  | 2/- net<br>(Extra special<br>price. Note the<br>great reduction<br>on this line) |
| <b>Blondeau Perfumes—</b>                                                                                                                                                                |                      |                                                                    |                      |                                                                                  |
| Vinolia Bouquet ... ..                                                                                                                                                                   |                      |                                                                    |                      |                                                                                  |
| Jequilla ... ..                                                                                                                                                                          |                      |                                                                    |                      |                                                                                  |
| Marequil ... ..                                                                                                                                                                          |                      |                                                                    |                      |                                                                                  |
| Losaria ... ..                                                                                                                                                                           | 1/3                  | 11½d.                                                              | 10/-                 | 8/-                                                                              |
| White Heliotrope ... ..                                                                                                                                                                  | 1/9                  | 1/4                                                                | 14/-                 | 11/2                                                                             |
| White Rose ... ..                                                                                                                                                                        | 3/-                  | 2/3½                                                               | 24/-                 | 19/2                                                                             |
| Opoponax ... ..                                                                                                                                                                          | 5/-                  | 3/9½                                                               | 40/-                 | 32/-                                                                             |
| Stephanotis ... ..                                                                                                                                                                       | 9/-                  | 6/10                                                               | 72/-                 | 57/7                                                                             |
| Ylang-Ylang ... ..                                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| Frangipanni ... ..                                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| Wood Violet ... ..                                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| Ess. Bouquet ... ..                                                                                                                                                                      |                      |                                                                    |                      |                                                                                  |
| Jockey Club ... ..                                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| Millefleur ... ..                                                                                                                                                                        |                      |                                                                    |                      |                                                                                  |
| Maréchal Niel ... ..                                                                                                                                                                     |                      |                                                                    |                      |                                                                                  |
| White Lilac ... ..                                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| Musk ... ..                                                                                                                                                                              |                      |                                                                    |                      |                                                                                  |
| Ambergris ... ..                                                                                                                                                                         |                      |                                                                    |                      |                                                                                  |
| Amaryllis ... ..                                                                                                                                                                         |                      |                                                                    |                      |                                                                                  |
| Jasmine ... ..                                                                                                                                                                           |                      |                                                                    |                      |                                                                                  |
| New Mown Hay ... ..                                                                                                                                                                      |                      |                                                                    |                      |                                                                                  |
| Honeysuckle ... ..                                                                                                                                                                       |                      |                                                                    |                      |                                                                                  |
| Musk Rose ... ..                                                                                                                                                                         |                      |                                                                    |                      |                                                                                  |
| <b>Miniature Samples—</b>                                                                                                                                                                |                      |                                                                    |                      |                                                                                  |
| Vinolia Soap (Otto Toilet) ... ..                                                                                                                                                        | 1½d.                 | —                                                                  | 1/-                  | 10d.                                                                             |
| " (Balsamic Medical) ... ..                                                                                                                                                              | 1½d.                 | —                                                                  | 1/-                  | 10d.                                                                             |
| " (Premier) ... ..                                                                                                                                                                       | 2d.                  | —                                                                  | 18/4 gross           | 14/8 gross                                                                       |
| Vinolia Powder ... ..                                                                                                                                                                    | 3d.                  | —                                                                  | 2/- doz.             | 1/7 doz.                                                                         |
| Vinolia Perfumes ... ..                                                                                                                                                                  | 3d.                  | —                                                                  | 2/- doz.             | 1/7 doz.                                                                         |
| Vinolia Eau de Cologne ... .. (Exception)                                                                                                                                                | 3d.                  | —                                                                  | 22/6 gross           | 20/3 gross                                                                       |
| Vinolia Lavender Water ... .. (Exception)                                                                                                                                                | 3d.                  | —                                                                  | 22/6 gross           | 20/3 gross                                                                       |
| White Leatherette Perfume Cases, containing two<br>1/3 bottles Vinolia perfumes ... ..                                                                                                   | 4/-                  | —                                                                  | 26/- doz.            | 22/- doz.                                                                        |



# "THE CHEMIST & DRUGGIST"

MESSRS. WILLIAM EDWARDS & SON,

of 157 Queen Victoria Street, E.C., have just issued the 1895 Edition of their Catalogue. The first part comprises British and Foreign Proprietary Medicines, Mineral Waters, Perfumery, and the second Druggists' Sundries. It is well arranged and illustrated.



MESSRS. WM. EDWARDS & SON have been appointed Agents for Messrs. Fletcher, Fletcher & Co.'s Liquors, and they also carry stock of Stevenson's Copaiba and Pepsin Liquors.



SENT POST FREE ON APPLICATION

## WM. EDWARDS & SON,

157 QUEEN VICTORIA STREET, LONDON, E.C.

## FORD, SHAPLAND & CO.

Chemists' and General Printers, Lithographers, Engravers, &c.,

6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.



NEW AND ORIGINAL

DESIGNS IN

## CHEMISTS' HANDBILLS.

WRITE FOR SPECIMENS AND PRICES.

*Price Lists, Pamphlets, Circulars, Billheads, Memorandums, Cards, and all kinds of Printing and Stationery required by Chemists, at most Moderate Prices.*

AGENTS FOR REGISTRATION OF TRADE MARKS.

## BOTWRIGHT & GREY

MANUFACTURING OPTICIANS,

(WHOLESALE AND EXPORT ONLY)  
CLERKENWELL, LONDON, E.C.

Bombay Office—S. H. North & Co., 29 Forbes St. Sydney Office—Lion & Mosely, Wynyard Building, Wynyard Sq.

Spectacles and Eyeglasses in all metals, Spectacle and Eyeglass Cases, Field, Marine and Opera Glasses, Telescopes, Barometers, Thermometers, &c., Eyeglass Chains and Cords. We invite the inspection of intending purchasers.



Repairs, Odd Orders and Surgeons' Refraction Prescriptions accurately prepared by return of post. Special attention is given to Chemists commencing, and instruction is given in Sight Testing by one of the principals if desired.



The ORIGINAL and by far the BEST STICKY FLY PAPER in the MARKET.

THE **FLY CEMETERY** **BY ROYAL LETTERS PATENT.** **"CATCHES MORE FLIES IN A DAY THAN THE OLD FASHIONED PAPERS DO IN A WEEK."** **SOLD ALL OVER THE WORLD.** **PRICED ONE PENNY**



WELL KNOWN IN EVERY HOUSEHOLD IN THE KINGDOM.  
ANNUAL SALE MILLIONS. BEARS LARGE PROFITS.

"The best test as to the efficacy of a Sticky Fly Paper is the length of time that it will retain its moisture and adhesiveness upon exposure to the air. We invite our friends to thus test our Paper against that of *any* rival manufacture by opening out the various samples and placing them side by side in the sun. We think it will be found that the 'Cemetery' will answer this test the most efficiently, and will not speedily become a mere *Skating Rink* for the Flies to amuse themselves upon."

**NOTE.**—The Fly Cemetery *is* folded over at the edges, as it is found by several years' experience that this is the method most appreciated by the general public as being the simplest plan, and most easy to open. When you know a good article stick to it as tenaciously as the Flies do to the Fly Cemetery.

MANUFACTURERS—

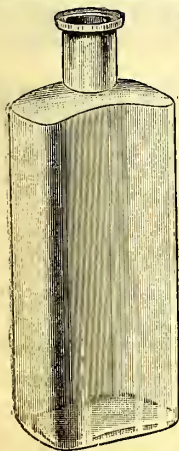
**TUNBRIDGE & WRIGHT, READING.**

NORTH OF ENGLAND DEPOT—

4 GALLOWGATE, NEWCASTLE-ON-TYNE.

TELEGRAMS—

"FLIES READING."



**THE CHEMISTS' ASSOCIATION, L<sup>TD</sup>.**

MANUFACTURERS,

**DRUGGISTS' SUNDRIESMEN, &c.**

Telegraphic Address—"BEATROP LONDON." Telephone No. 11,391.

**OUR NEW ILLUSTRATED PRICE LIST**

WE SEND **1895** POST FREE

ON APPLICATION TO ANY PART OF THE WORLD.

**CURTAIN ROAD, LONDON, E.C.**



**IF**

You are looking out for a reliable and cheap STICKY FLY PAPER, with no Maker's Name on, wait until next month and sample the

**P.P.C.**



**WESTMINSTER COLLEGE**

TRINITY SQUARE, BOROUGH, LONDON, S.E.

Principals: G. S. V. WILLS and H. WOOTTON.

THE LARGEST &amp; MOST SUCCESSFUL SCHOOL.

The Westminster College Certificates are accepted by the Royal Colleges of Physicians and Surgeons.

N.B.—FEE for 6 Months, £12 12s.; 3 Months—Minor, £8 8s.; Major, £5 5s.; Preliminary, £3 3s.

THE NEXT COURSE WILL COMMENCE ON APRIL 16th.

Intending Students should enter their names at once.

**PASS LIST, January, 1895.****MAJOR.**

Two Students only presented themselves from Westminster College; BOTH passed at their first attempt:

Mr. E. DALES.

Mr. H. A. POTTER.

**MINOR.**

Mr. W. ADAMSON

" D. A. D. AITCHISON

" W. E. BURGE

" H. J. CHASE

" W. D. COPLEY

" E. DARCH

" A. DEVEREUX

" A. J. FAIRLEE

" A. E. FARROW

Mr. D. E. JAMES

" J. KIRKPATRICK

" A. E. LACY

" J. H. SKITT

" E. S. STONE

" C. L. TAYLOR

" G. H. WILKINSON

" F. L. WILLIAMS.

**APOTHECARIES' HALL.**

Messrs. ADAMSON, PUNCH, COPLEY, AYRE, TAYLER, HOLT WOOD, LONGMIRE, and Miss BRADBURY.

**PRELIMINARY.**

Mr. H. P. COOPER.

Mr. L. J. LINNETT.

For Prospectus and full particulars apply to E. WALDEN, Secretary.

**MIDDLESEX COLLEGE**

40 CHARLOTTE STREET,

PORTLAND PLACE, W.

The Next Course will commence on Wednesday, April 17th, and continue till the July Exam.

|                                       |     |     |     |        |   |      |
|---------------------------------------|-----|-----|-----|--------|---|------|
| CHEMISTRY, 10-11 Daily                | ... | ... | ... | Fee £2 | 2 | 0    |
| BOTANY, 11-12 Monday and Thursday     | ... |     |     | „      | 1 | 1 0  |
| MATERIA MEDICA, 11-12 Wed. and Friday | „   |     |     | „      | 1 | 1 0  |
| PHARMACY, 2-2.30 Daily, except Wed.   | ... |     |     | „      | 1 | 1 0  |
| PRESCRIPTION READING, 11-12 Tuesday   | „   |     |     | „      | 0 | 10 6 |
| *PRACTICAL CHEMISTRY, 12-5 Daily      | ... |     |     | „      | 5 | 5 0  |
| PRACTICAL PHARMACY, 3-5 Once a week   | „   |     |     | „      | 1 | 11 6 |

\* Shorter times by arrangement at Reduced Fees.

Students may enter for any one or more of these subjects.

Composition Fee for all Subjects... £8 8 0

**F. HUBERT PAINTER.****LIVERPOOL SCHOOL  
OF PHARMACY,**

6 Sandon Terrace, Upper Duke Street, Liverpool,

LATE OF 24 NEWINGTON.

**Principal—R. C. COWLEY, Ph.Ch.,**

Analytical and Consulting Chemist.

Since entering upon the new premises the Principal has been thoroughly satisfied with the condition of the School, both in the point of efficiency and the percentage of successful candidates at the Examinations.

At the recent Examination this School retained its usual high percentage of passes. The following gentlemen were successful:—

Mr. P. BENNINGTON, Liverpool

" S. HARDY, Liverpool.

" F. R. N. HARRIES, Netherth.

" H. KERRISH, Ramsey, L.O.M.

Mr. J. E. OWEN, Bangor.

" R. POSTLETHWAITE, Barrow-

in-Furness

" H. WHITE, Liverpool.

Syllabus, with full particulars, may be had on application to the Principal.

The present Course commenced January 2nd.

PRELIMINARY STUDENTS TAKEN BY MR. PENDLEBURY.

**THE CENTRAL SCHOOL  
OF  
CHEMISTRY & PHARMACY,**

173 Marylebone Road, London, N.W.

(Late LUFF &amp; WOODLANDS.)

Lecturers { Dr. A. B. GRIFFITHS, Ph.D., F.R.S.E., F.C.S., &c.  
Mr. L. COOPER, F.C.S., F.R.B.S., &c.

This School is fitted up with every convenience for Pharmaceutical Students, and the utmost endeavours are made by means of individual attention to secure a successful issue.

Extra Lectures are given throughout the course, and for reference Students are requested to apply to any past Students.

Entries are now being received, and prospectuses will be forwarded on application to THE SECRETARY.

**SHEFFIELD COLLEGE  
OF PHARMACY.**

PRINCIPALS—

Mr. ROBT. B. GREAVES, Ph.C., F.C.S., Gold and Silver Medallist, Botany and Chemistry.

Mr. J. W. J. TURNER, Ph.C

The full Course for the July Minor commenced Wednesday, April 3, 1895.

The full Course for the July Major commenced, Monday, April 8, 1895.

For Prospectus and further Particulars, apply,

**Messrs. GREAVES & TURNER,**  
118 PRINCESS BUILDINGS, THE MOOR, SHEFFIELD.



# INFLUENZA & CLINICALS

Clinical Thermometers are much in demand. Chemists should now look up their Stocks.

These Thermometers are constructed with an improved constriction in the bore, which makes it impossible for them to be put out of order, as specially noticed by the *Lancet*, *Chemist and Druggist*, &c., &c.

For the "Latest" Clinical Thermometer we claim a distinct advantage over the ordinary Thermometers now in use, as it is constructed without the usual contraction or bend in the stem, thus strengthening the tube in the weakest part, and rendering breakage in use or transit less liable.

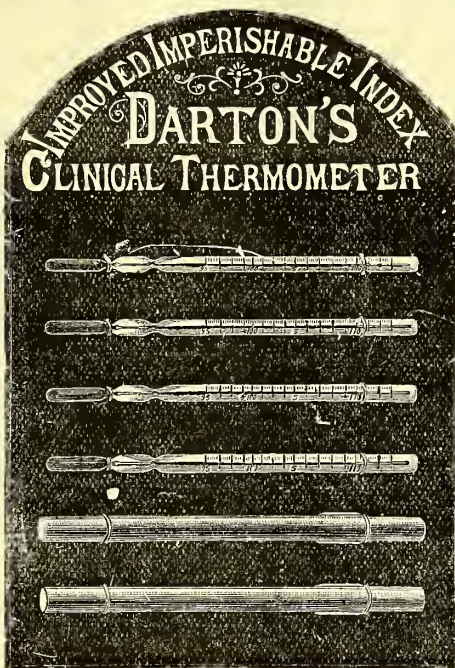
No. 1A.—Hospital Clinical Thermometer, 4 in., Metal Case .. per doz. 18/-

No. 2A.—F. Darton & Co.'s Improved Imperishable Index Clinical Thermometer, constructed with small bulb to ensure sensitiveness, in Nickel-plated Cases, with bayonet catch or screw fastening, 4 in. per doz. 21/-

No. 3A.—F. Darton & Co.'s Improved Oval or Flat-backed Clinical Thermometer. The tube is perfectly flat on the one side, and with a broad white strip of opaque enamel, which throws the dividing and figuring up very distinctly, leaving a good flat surface for name and address. Price, in Oval Case, very compact .. .. per doz. 27/-

## MAGNIFYING INDEX THERMOMETERS.

No. 4A.—Hospital Lens-front Magnifying Clinical Thermometer, 4 in., in Metal Case .. .. per doz. 30/-



No. 5A.—Darton's Improved Imperishable Index Clinical Thermometer, fig. 24, specially constructed with lens-front magnifying arrangement, so as to increase the size of the index column of mercury, thus enabling readings to be taken with great facility. Supplied in Nickel-plated Cases, with bayonet or screw fastening .. .. per doz. 38/-

## RAPID ACTION CLINICALS.

These Thermometers are constructed to take the Maximum Temperature in 30 secs.

No. 6A.—Darton's Rapid Action Ordinary, in case, 4 in. .. per doz. 27/-

No. 7A.—Darton's Rapid Action Lens-front Magnifying .. per doz. 48/-

\* \* It is advisable to have the Rapid Action Clinicals made with Lens-front magnifying glass, on account of the small bore

KEW OBSERVATORY CERTIFICATES, 12/- DOZ. EXT 3A.

CLINICALS CAN BE SUPPLIED IN EITHER METAL, WOOD, OR VULCANITE SCREW CASES, SHOW CARDS TO HOLD HALF-DOZ. SENT GRATIS WITH ORDERS.

No Charge for Naming. Centigrade Scale at same Prices.

Highest Awards for Meteorological Instruments at Chicago Exposition, 1893.

**F. DARTON & CO.,** (Makers to H. M. Government) 142 ST. JOHN STREET, LONDON, E.C.  
ESTABLISHED 1834. Clerkenwell Optical Works, Telegraphic Address—"EXCEPTIONAL LONDON."

## THE LIVERPOOL CHEMISTS' PRICE LIST & STOCK BOOK

Tenth Edition, just Published. Price 1/-; post free, 1/2. Revised and Enlarged.

Contains suggestions for, and is arranged for use in, the indexing and keeping of stock. Indispensable as a guide in the selling of rare drugs as well as those in general use.

To be obtained from the Publisher, through any of the Wholesale Houses, or from ANTHONY S. BUCK (Hon. Sec.), 179 Bedford Street, Liverpool.

LONDON: H. SILVERLOCK, 92 BLACKFRIARS ROAD, S.E.

READY THIS DAY, xxvii and 584 pages, PRICE 9/-.

## THE EXTRA PHARMACOPŒIA:

With Medical References and a Therapeutic Index of Diseases and Symptoms.

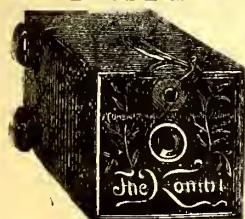
By WILLIAM MARTINDALE, F.C.S., and W. WYNN WESTCOTT, M.B., LOND.

## EIGHTH EDITION.

Limbo, medium 24mo.

LONDON: H. K. LEWIS, 136 GOWER STREET, W.C.

## KOMBI CAMERA.



Snap Shot or Time Exposure. Complete, with strip of film for 25 Exposures.

15/-



One-fourth actual size.

Not a Toy. Scientific. Practical. Indestructible. Child can Operate it.

Carried in Pocket. Size, 2 in. x 1½ in. Weight, 4 oz. Takes pictures 1½ in. square (25 in one loading). ILLUSTRATED BOOKLET FREE.

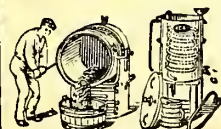
THE BEST SELLING CAMERA ON THE MARKET.

ALFRED C. KEMPER, Manufacturer.

ADAMS & HAYDEN, Managers, 36 OXFORD ST., LONDON, W.

## IMPROVED STILLS

DISTILLING and RECTIFYING APPARATUS



## DEROY FILS AINE

MANUFACTURER  
75, rue du Théâtre  
PARIS

Illustrated CATALOGUE and GUIDE-BOOK for DISTILLERS of Cognac, Rum, Brandies of all kinds, Essential Oils, &c., mailed free.



# EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Tuesday morning's post of each week. Remittances payable to EDWARD HALSE.

## FOR DISPOSAL.

### Proprietary Articles.

Dotson's condition-powders, poultry-couidiment, pig-powders, for sale, cheap. Rontly, Chemist, Eastbourne.

### Shop Fittings.

For sale, 8 2 and 3 gall. carboys, 18 lozenge-jars, sundry ointment-jars and bottles, large iron mortar (on block), large stone mortar; cheap; also one of Maw's sponge-cases, with top case, 4l. 10s. J. Chilwell, 452 Oxford Street.

### Educational.

Apparatus.—Burettes, grad. and plain, nitrometer, condenser, retort-stand, burette-holder, &c., at half list price, about 25s. worth. Erickell, Tything Pharmacy, Worcester.

### Miscellaneous.

For sale, indiarubber water-bed, 35 in. by 29 in., slightly soiled, but not any worse. Appleton, Chemist, Selby.

Surplus stock.—Pure carmine, ounce post free 15 stamps; best pale gold bronze, pound packet post free 1s. 11d. Hare, Chemist, Nottingham.

For disposal, 24-oz. W. & N. N. shop-rounds, 7s. doz. delivered; 30-gal. methylated-spirit drum, with tap, 15s.; 12-gal. oil tin, with brass tap, 5s. Smith, Market Place, Stroud.

Syphons, bottles, and cases.—Offers wanted for (either whole or in part)—(1) 16 doz. and 7 syphons (pear-shaped); (2) 26 doz. cylinder splits, 52 doz. egg-shape splits, 84 doz. seltzers (full size), 312 doz. sodas (full size); (3) 105 6-doz. soda cases, 26 6-doz. seltzer cases, 17 12-doz. split cases, 6 3-doz. syphon cases, 10 6-doz. long ginger-beer cases, 7 3-doz. long ginger-beer cases. Bradley & Bliss, Reading.

## WANTED.

Chemists' and Druggists' Diary, 1887. Edwin Bing & Son, Chemists, Canterbury.

Bandage-cutting machine, new or second-hand, or name and address of maker. Apply, R. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

# EASTMAN'S

## SOLIO PAPER.

The typical and standard printing-out paper of the day. Prints made upon it are distinguished by their delicacy, richness of detail, and beauty of finish.

Unrivalled for excellence of quality and ease of manipulation. Gives clear whites, exquisite tone, and high gloss; will neither curl, frill, nor blister; incomparable for ease and rapidity of working. Great depth and variety of tone. In white, pink, mauve, and pensé—the last specially recommended for export.

## MATTE SOLIO PAPER.

Possesses all the excellent qualities and characteristics which distinguish glossy Solio, and is printed, fixed, and toned in exactly the same manner.

The tones are exceedingly delicate, ranging from warm sepia to soft black. Great richness of detail, softness, and fidelity of gradation are obtained.

## BROMIDE PAPERS.

For enlarging, or for printing by contact from negatives. Unequalled for perfection of coating, delicacy of gradation, clearness and depth of shadows, and uniformity.

'PERMANENT.' Specially suitable for printing by contact from soft and delicate negatives, and for enlarging by daylight.

'EXTRA RAPID' Specially suitable for printing by contact from hard and dense negatives, and for enlarging by artificial light. The papers are coated in three grades, and are known as "A" Thin, Smooth. "B" Thick, Smooth. "C" Thick, Rough.

## PLATINO BROMIDE PAPER.

An argentic Bromide paper, which gives the effects of Platinotype, and is at the same time far easier to work. It is distinguished by the soft grey and rich velvet and Platinotype tones, with the perfect matte surface of the finished print on both the rough and smooth paper.

Platino Bromide paper can be used for making either enlargements or contact prints. The method of treatment is the same as that employed with Eastman's other Bromide papers.

## NIKKO PAPER.

For enlarging, or for printing by contact from negatives.

Combines the soft effect of a platinum or bromide tone with a highly enamelled surface. It has a delicate pink tint, and is especially recommended for those who prefer a warmer tone than that of the ordinary bromide print.

Contact prints or enlargements on this paper have a superior gloss; they possess bright, clear high lights, beautiful half-tones and deep rich shadows, and are transparent without blackness.

No other paper gives such perfect results with so little retouching.

# EASTMAN

Photographic Materials Co. Limited,

PARIS: 4 Place Vendôme.

115-117 Oxford Street, LONDON, W.

ROCHESTER, N.Y., U.S.A.  
Eastman Kodak Co.

Telephone—35447.

Telegrams—"ASTIGMATIC."



## J. RAPHAEL & CO.

Holders of the largest stock of Spectacles and  
Folders in every recognised material.

ODD ORDERS AND PRESCRIPTIONS BY RETURN.

13 OXFORD STREET, LONDON, W.

Correspondence cordially invited, and every information most willingly given to assist Chemists who desire to build up this lucrative adjunct.



# **INFLUENZA.**

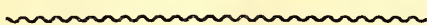
## **WYETH'S BEEF JUICE**

IS ACKNOWLEDGED THE BEST

**NOURISHING AND**

**STIMULATING FOOD**

For Restoring the Tone; Strengthening  
and Nourishing the System, in an  
attack of Influenza, and in Con-  
valescence from the same.



Being LARGELY PRESCRIBED by PHYSICIANS at this time of the  
EPIDEMIC, all RETAIL CHEMISTS should keep up their Stock of

## **WYETH'S BEEF JUICE.**

*To be obtained from all Wholesalers.*

### **JOHN WYETH & BROTHER**

MANUFACTURING PHARMACEUTICAL CHEMISTS,

**PHILADELPHIA, U.S.A.; & 30 SNOW HILL, LONDON, E.C.**



# YARDLEY & CO., LD.

Paris's Windsor Soap,  
Y. & CO.'S Oatmeal Soap,  
Y-Brand Transparent  
Soap, etc., etc.

HIGH-CLASS TOILET SOAP MAKERS SINCE 1770.

Desire the inquiries of the Trade for  
Specialities in Triple Milled Soaps of all  
descriptions; also Re-melted Fine Boiled  
Soaps.

Works—Ridgmount St., LONDON, W.C.



## THE "BETROTHAL" BOUQUET. GROSSMITH'S NEW PERFUME.

*A chef d'œuvre of the perfumer's art.*

### UNDER ROYAL PATRONAGE.

Dedicated by gracious permission to PRINCESS MAY (H.R.H. The Duchess of York).

N.B.—This entrancing Perfume is quite new, and possesses the rare quality of preserving  
its very distinctive and floral character throughout.

In attractive single cases, 21/-, 40/-, and 80/- per doz. Sold by all leading Chemists and Perfumers.

J. GROSSMITH, SON & CO.. Perfumers. LONDON.

## A REAL CONVENIENCE.

### PILL BOX SHOOT.

"THE CHEMIST AND DRUGGIST" of Feb. 23,  
1895, says:—

"The intention is that the shoot shall be hung on a wall. It only projects 2 inches, and is 37 inches long and 7 inches wide. When fully stocked it contains twenty-two dozens of various sizes of pill boxes, each in a different receptacle, the size required being at any moment available. The apparatus will be found useful in any pharmacy where it may be fixed. The contrivance is well-made and has a neat appearance."

PRICE 10/6 EACH.

REYNOLDS & BRANSON, 13 BRICCATTE, LEEDS.

London Agents: MAW, SON & THOMPSON.

## POTASS. CYANIDE

(From 30 % to 93 %).

YELLOW PRUSSIAN OF POTASH,  
Nitrate of Silver, Chloride of Gold,  
AND OTHER

## CHEMICALS

FOR PHARMACEUTICAL, PHOTOGRAPHIC, AND  
TECHNICAL PURPOSES.

FRED<sup>K</sup>. BOEHM, 4 Callum Street, LONDON.

AGENT FOR THE

Deutsche Gold- und Silber-Scheide Anstalt, Frankfurt a/M.

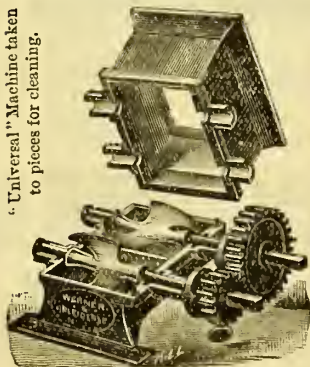
## THE "UNIVERSAL"

### Kneading & Mixing Machine,

Used by all the largest Pill Makers.

SUITABLE ALSO FOR

ointments, powders,  
AND MASSES  
of any  
Consistency.



Size 3, Type I., for 1-lb. Mass.

# PILL MASSING MACHINES.

PILL  
PIPERS,  
CUTTERS,

ROUNDERS, COATERS,  
"SPIRAL BRUSH"

POWDER-SIFTERS

(WITH INTERCHANGEABLE SIEVES),

And every Accessory for the Pill Room.

WERNER, PFLEIDERER & PERKINS (LIMITED),

Head Offices & Showrooms—117 Queen Victoria St., E.C.

Works—43 Regent Square, Gray's Inn Road, W.C.

Contractors to the War Offices of all the Great Powers and other Governments.



# SOZIO AND ANDRIOLI,

ESTABLISHED A.D. 1757.  
GRASSE (FRANCE)

## FRENCH ESSENTIAL OILS:

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme,  
Rosemary, Spike, Santal, &c.

### NEW CROP.

Oil of Neroly, Rose Water, and  
Orange Flower Water.

SAMPLES AND QUOTATIONS ON APPLICATION.

# FRENCH PERFUMES

OUR WELL KNOWN AND VERY SUPERIOR COMPOSITIONS  
STOCK KEPT IN LONDON

Sole Agent. MR FRED<sup>K</sup> BOEHM 4 CULLUM ST LONDON. E.C.


# R C TREATT

Dunster House Mining Lane  
LONDON

IMPORTER OF

Musk Civet Ambergris Attar - of - Rose

## ESSENTIAL OILS



Wholesale  
and  
Export  
only

APPLICATION  
ON  
QUOTATIONS  
AND  
PRICE LIST

**COOK'S PURE TOILET SOAPS.**  
FRAGRANT, EMOLLIENT.

**COOK'S "RIVIERA" SOAP** (SUPER-FATTED)  
FOR THE COMPLEXION.

**COOK'S "SAVON DE LUXE."**  
THE MOST LUXURIOUS SOAP MADE.

**EDWARD COOK & CO., LONDON.**



# PALMER'S

NEW PATENT

## NIGHT LIGHTS.

### "VENUS"

For Burning in Glasses without Water.

### "GLOW WORM"

For Burning in Saucers with Water.

BOTH ARE PERFECTLY

Safe, Clean, Reliable,

AND

CONTAIN **NO** GREASE.

SOLE PATENTEES AND MANUFACTURERS,

**PALMER & CO., LTD.,**  
STRATFORD, LONDON, E.

## H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-,  
10/6, 21/-

2gr Julep, 2/-, 4/-  
CONCENTRATED

Egg Julep, 2/6,

5/-, 10/6.

Golden Fluid,

10/6, 21/-

OXURON

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

5/6.

Stimulating Lotion, 5/-,

10/6.

Astringent and Tonic

Lotion, 5/-, 10/6.

Quinine and Arnica

Hair Wash, 3/6,

5/-, 10/6, 21/-

Arnica Wash,

3/6, 5/-,

10/6.

4s.

**EUCHRISMA.**  
Combines in one clear Fluid every valuable  
Component both of a Hair Grease and Wash.  
3/6, 5/-, 10/6, 21/-.



**EAU RACINE.**  
For renewing the original colour of Grey Hair.  
Superior to all other Preparations, being perfectly  
simple in its Composition. Price 8/-.

An elegant Preparation for  
the Hair and Beard.  
Price 2/6, 3/6, 5/-, 10/6, 21/-.

## BRILLANTINE

H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT)

PRICE ONE SHILLING.

9 & 21 Burlington Arcade; 13 & 14 Old Bond St., London.

# S. V. METH.

**JONES & COMPANY,**  
COPPERFIELD ROAD,  
LONDON, E.

LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in  
5-gallon quantities at Lowest Prices.

**REDUCTIONS TO LARGE BUYERS.**

SAMPLES FREE.

## BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application.

**FINEST ORANGE WINE FOR QUININE.**

**JAMES  
BURROUGH**

**FINE PORT** without Tannin  
**FINE SHERRY** for Medicinal Uses, &c.  
**FINE MALAGA** for Steel Wine, &c.  
**FINE BURGUNDY** for Invalids  
S.V.R. and Methylated Spirit at lowest present prices

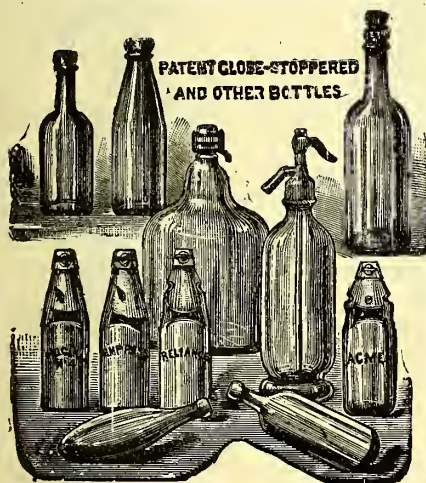
**CALE STREET  
DISTILLERY**  
All at Lowest Prices and  
specially recommended.  
**CHELSEA.**





# DAN RYLANDS, LIMITED.

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.



## GLASS BOTTLE DEPARTMENT.

We have had over **TWENTY YEARS'** experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. RYLANDS' "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therein will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aerated-water trade.

Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

## ESSENCE DEPARTMENT.

Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.

Try "**MELOKA**," Our New Beverage.

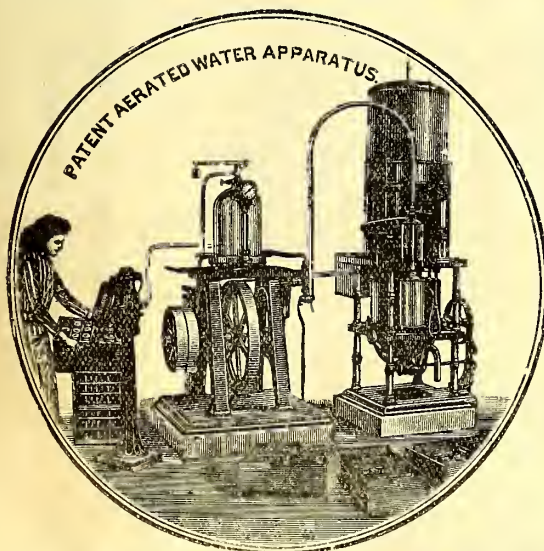


## SODA-WATER MACHINERY DEPARTMENT.

This Machinery possesses exceptional merits. The Aerated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

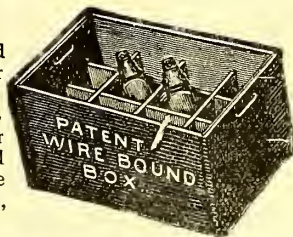
We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aerated Water making. They are strong, simple, easily managed, and reliable. Pure Compressed Carbonic Acid Gas supplied.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been **nearly 5,000 sold.**



## BOX DEPARTMENT.

Our PATENT WIRE-BOUND and "DINO" BOXES are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In our boxes, the wire is well protected from wet and rust, and these boxes are the strongest, lightest, and neatest in the trade.



Catalogues and Price Lists free on application.

# DAN RYLANDS, LIMITED, BARNSELY, ENGLAND



# SYPHONS & SELTZOGENES



Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W.  
Agents for New South Wales, Queensland, and New Zealand.

**SODAWATER  
MACHINERY**  
AND APPLIANCES  
**BRATBY & HINCHLIFFE LTD**  
ANCOATS 146 MANCHESTER  
MANCHESTER LONDON E.C.  
81 ROBERTSON STREET, GLASGOW

## PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

## SELTZOGENES.

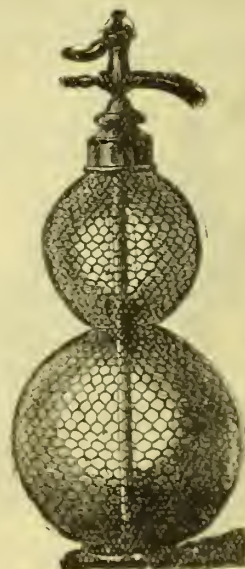
|     |     |     |     |      |            |
|-----|-----|-----|-----|------|------------|
| 1   | 2   | 3   | 4   | 5    | 8 pint.    |
| 6/- | 6/8 | 7/6 | 8/6 | 10/5 | 16/- each. |

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

All our Seltzogenes are manufactured on the well-known "Fovre" System, and each one is thoroughly tested before leaving the works.

Messrs. ROYES BROS., 43 Queen Street, Melbourne, Victoria.  
Agents for Victoria, South and West Australia, and Tasmania.



## PATENT PARCEL POST BOXES.

A Perfectly Cushioned Box, suitable for any description of  
**GLASS BOTTLES OR FANCY GOODS.**

**SPECIAL CUSHION, SILK LINED, for HIGH-CLASS GOODS.**

**LOOSE OR HINGED LID BOXES OR TUBES.**

Set of 6 Hinged-lid Cushioned Boxes for Bottles 4 oz. to 16 oz., 1s. 3d., post free.

Special set of 6 for Fancy Goods { Plain, 1s. 3d., post free.  
Fancy, 2s. 6d. " "

Quotations for quantities, Plain or Printed, per return post.

**ORDERS PROMPTLY EXECUTED.**

**G. C. KIRTLEY, Printer and Box Maker,**  
3 Elswick Court, NEWCASTLE-ON-TYNE.

## SPURWAY & CIE.

Perfume Manufacturers, Cannes-Grasse, France.  
Established 1820

Gold Medals—Philadelphia, 1876; Cannes-Grasse, 1893; Nice, 1884.

**FRENCH ESSENTIAL OILS,**  
**PURE OLIVE OILS, POMADES, &c.**

**SPECIALITY—Finest Quadruple Extracts**  
**of inimitable and lasting Fragrance.**

STOCK KEPT WITH LONDON AGENTS—

**MESSRS. TEALE & COX, 147 ALDERSGATE STREET, E.C.**  
18

# SYPHONS

**BEST QUALITY ONLY  
SUPPLIED.**



**TELEGRAMS—"TYLER."**

[4] Telephone No. 192.

**HAYWARD TYLER & CO.**

Whitecross Street, LONDON, E.C.



# BARNETT & FOSTER,

## MANUFACTURERS.

### THE "COMPACT" CONTINUOUS ACTION SODA-WATER MACHINE.

For use with the Liquefied  
Carbonic Acid Gas.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

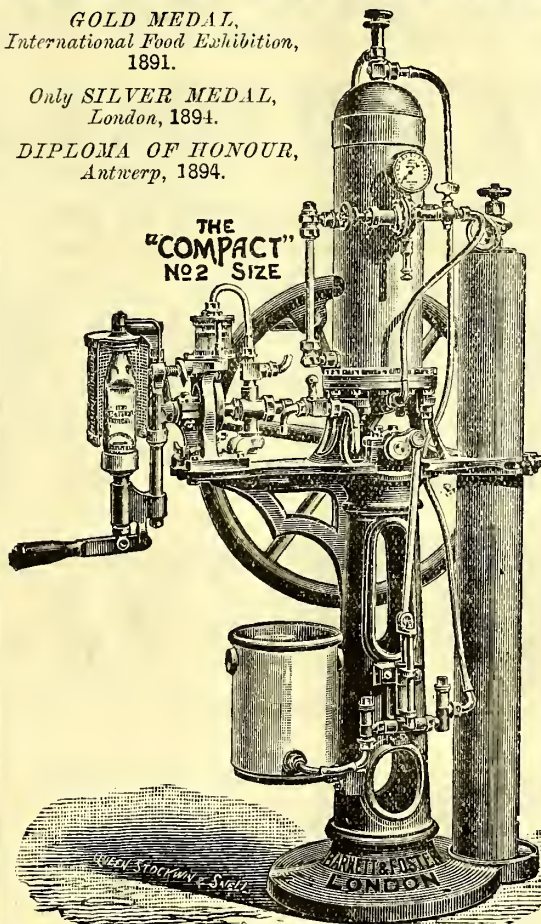
**NO DANCER.  
NO MESS.  
PERFECTLY  
RELIABLE.**

**TWO FILLERS  
INCLUDED.**

*GOLD MEDAL,  
International Food Exhibition,  
1891.*

*Only SILVER MEDAL,  
London, 1894.*

*DIPLOMA OF HONOUR,  
Antwerp, 1894.*



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

In use by  
Leading Chemists in  
all parts of the  
United Kingdom.

- |   |                                                                                                                                                                                                            |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| } | <b>No. 1 Size</b> , complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word ( <i>Supremacy</i> ) <b>£60</b>                           |
|   | Producing Capacity by Hand-power 600 dozen per day.                                                                                                                                                        |
|   | Power 1,200 " "                                                                                                                                                                                            |
| } | <b>No. 2 Size</b> , complete with Turnover and Syphon-filling Machine ... Code word ( <i>Royalist</i> ) <b>£48</b>                                                                                         |
|   | Producing Capacity by Hand-power 350 dozen per day.                                                                                                                                                        |
|   | Power 700 " "                                                                                                                                                                                              |
| } | <b>No. 3 Size</b> , complete with Turnover or Syphon-filling Machine ... Code word ( <i>Retailer</i> ) <b>£33</b>                                                                                          |
|   | Producing Capacity by Hand-power 200 dozen per day.                                                                                                                                                        |
|   | Syrup Pump fitted to the Turnover Filling Machine on either of above ( <i>Injecto</i> ) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices. |

SOLE INVENTORS AND MANUFACTURERS OF THE

## "NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON

KNOWN ALL OVER THE WORLD.

*Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.*

**NIAGARA WORKS, 26<sup>T</sup> EAGLE WHARF ROAD, LONDON, N.**





CHEMISTS  
SHOULD RECOMMEND TO THEIR  
CUSTOMERS AS A  
**CERTAIN**  
**INFLUENZA**  
**PREVENTIVE,**



THE  
**C.A.M.W.A.L.**  
THE CHEMISTS' AERATED MINERAL WATERS ASSOCIATION LIMITED.



**QUININE**  
**LEMONADE.**



QUININE is universally accepted as the Best Preventive during epidemics of Influenza, and is generally prescribed by the Medical Profession for this disease.

This Lemonade contains Quinine, is a pleasant and palatable beverage, and may be taken daily as an ordinary Lemonade.

In Syphons, 3/- per dozen.

In Bottles, 1/3 per dozen.

PREPARED BY THE  
Chemists' Aerated & Mineral Waters Association  
"CAMWAL," LIMITED,  
LONDON, BRISTOL, HARROGATE, AND MITCHAM.





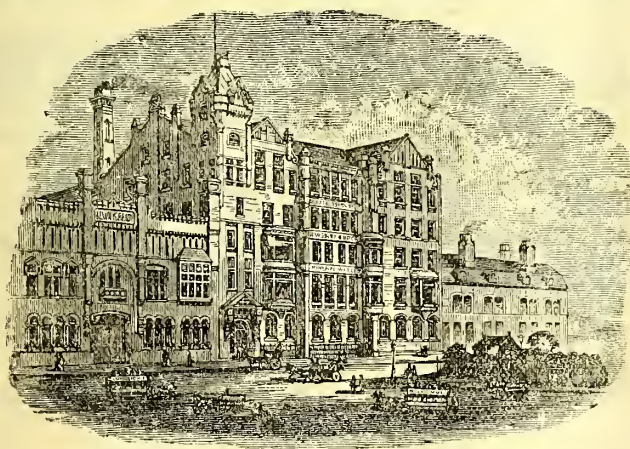
# JEWSBURY & BROWN

Have pleasure in announcing that they have removed to New  
Premises at

**ARDWICK GREEN, MANCHESTER,**

WHICH HAVE BEEN SPECIALLY DESIGNED FOR THE MANUFACTURE OF

**MINERAL WATERS,**  
AND  
**BREWED GINGER BEER,**  
**Aërated Beverages.**



The  
LABORATORIES, MACHINERY,  
and APPLIANCES are  
THOROUGHLY UP TO DATE,  
and the Water Used comes only in  
contact with Pure Tin and Slate,  
thus absolutely avoiding any  
dangerous metallic contamination.  
As heretofore, only the Finest  
Qualities of Materials will be used  
in every department. We rely on

the quality of our productions to ensure for them a preference with the consumer who  
requires a safe and refreshing beverage of absolute purity.

Chemists who have not Stocked these Waters are invited to write for Prices.

**SPECIAL** Read the important official analysis on page 323  
**NOTE.** ~~~~~ of the Diary for current year. ~~~~~

**CARRIAGE PAID ON WATERS & RETURNED EMPTIES.**

**JEWSBURY & BROWN,** Mineral Water Manufactory, **MANCHESTER**  
ARDWICK GREEN,  
ORDERS FOR EXPORT AND SHIP STORES RECEIVE SPECIAL ATTENTION.





## ROBINSON'S LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

### REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.L.S.,

Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).

December 15, 1883.

## ROBINSON'S ORANGE WINE.

Specially prepared for Quinine Wine, does not deposit, will keep good in any climate, and well adapted for Export Trade. Supplied in Cases containing 9, 18, 30, 60, or 120 Gallons. Terms on application. [2]

## ROBINSON'S LEMON SQUASH.

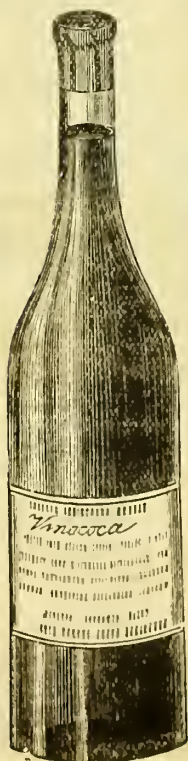
This delightful Summer Beverage is produced solely from the finest fresh Messina Lemons, the juice of which is clarified from all muddy deposit, the fine aromatic flavour of the Peel is extracted and added to the prepared juice, thus securing a far more delicate and refreshing drink than can possibly be obtained by the old clumsy method of squeezing the lemon, &c. Sold in Bottles, reputed quarts, at 1s. each.

B. ROBINSON, Distiller and Brewer of British Wines, Church St., Pendleton, Manchester.

## A. MILLAR & CO., LTD., DUBLIN.

## PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.



## VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

## COCA LIQUEUR

The best Restorative is

ROLLAND'S COCA LIQUEUR.

The best Nerve Tonic is

ROLLAND'S COCA LIQUEUR.

The best Renewer of Health is

ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

SOLE PROPRIETORS OF

## THE PARISIAN VAPORISER & EAU DE LIS.

Price 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, LONDON, W.  
REGENT STREET,



IMITATED BUT NOT EQUALLED!!

**MASON'S**  
**IS THE ORIGINAL**  
**EXTRACT OF HERBS**

No other Extract makes Beer like it!!

INVENTORS AND MANUFACTURERS—

**NEWBALL & MASON, NOTTINGHAM.**

**HALL'S**  
**COCA WINE**

3/6 Size - 26/- per Case (1 doz.)

2/0 Size - 30/- per Case (2 doz.)

*Can be obtained through the Wholesale Houses, or from the Proprietors,*

**STEPHEN SMITH & CO., BOW, LONDON.**



# BOVRIL

THE VITAL PRINCIPLE OF PRIME OX BEEF, IS 50 TIMES MORE NOURISHING THAN ORDINARY EXTRACT OF MEAT OR HOME-MADE BEEF TEA.

BARON LEIBIG discovered and publicly avowed the unsuitableness of Meat Essences, Meat Extracts, and home-made Beef Tea as resuscitating agents or as food in any direct sense.

BOVRIL was introduced to supply the nourishment so conspicuously absent in these preparations, and this is secured by the introduction of albumen and fibrine (or rather the entire lean of beef) desiccated at a low temperature by special process, and subsequently pulverised to a minute degree of subdivision. By this means the entire nourishment of animal food is adapted to the feeblest and most sensitive stomach, and perfect assimilation is secured with the least possible expenditure of vital energy.

## INVALID BOVRIL

Is specially prepared for use in the Sick Room. It is put up in porcelain jars and sold by chemists and druggists only; and it differs from ordinary Bovril in being more concentrated and quite devoid of seasoning.

It is the most perfect form of concentrated nourishment at present known, and is enjoyed by Invalids when ordinary food and stimulants are rejected.

**BOVRIL, Ltd., Food Specialists, LONDON.**

Chairman—RT. HON. LORD PLAYFAIR, K.C.B., LL.D.

**A SEASONABLE LINE FOR  
THE COLD WEATHER.**

Important to Chemists and the Public.

ONE OF THE OLDEST AND BEST REMEDIES  
FOR COUGHS, COLDS, &c.

**PURE LIQUORICE JUICE.**

**“SOLAZZI”**

Is the **FINEST BRAND** the World produces.  
**THE CHEMIST'S BRAND.**

“The British Medical Journal” says:—

“Of all varieties of Stick Liquorice, “SOLAZZI” is the most famous. Possesses all the characters attributed to Pure Extract of Liquorice . . . an entire absence of any matter foreign to the root.”

“The Chemist and Druggist” says:

“The most esteemed of all.”

Recommended also by “Health,” “Food and Sanitation,”  
“Health News,” &c., &c.

Ask your Wholesale House for Show  
Cards, Handbills, &c.

**EIGHT PRIZE MEDALS AWARDED**

**GOODALL'S  
HOUSEHOLD  
SPECIALITIES.**

**YORKSHIRE RELISH.**

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

**GOODALL'S BAKING POWDER.**

The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins.

**GOODALL'S EGG POWDER.**

One 6d. Tin is equal to 25 Eggs. In 1d. packets; 6d., 1s., and 5s. Tins.

**GOODALL'S CUSTARD POWDER.**

Delicious Custards without Eggs. In Boxes, 2d., 6d., & 1s. each.

**GOODALL'S BLANCMANGE POWDER**

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

**GOODALL'S QUININE WINE, B.P.**

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

**GOODALL'S GINGER-BEER POWDER.**

Makes the Best Ginger-Beer. Packets, 3d. and 6d.

**GOODALL'S BRUNSWICK BLACK.**

For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

**GOODALL'S LAVENDER WATER.**

Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

**GOODALL'S PLATE POWDER.**

For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

**GOODALL'S JELLY SQUARES.**

Make a Delicious and Nutritious Jelly. In  $\frac{1}{2}$ -pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

**PATENT MEDICINES  
AND**

**DRUGGISTS' SUNDRIES.**

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

**GOODALL, BACKHOUSE & CO., LEEDS.**



# PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

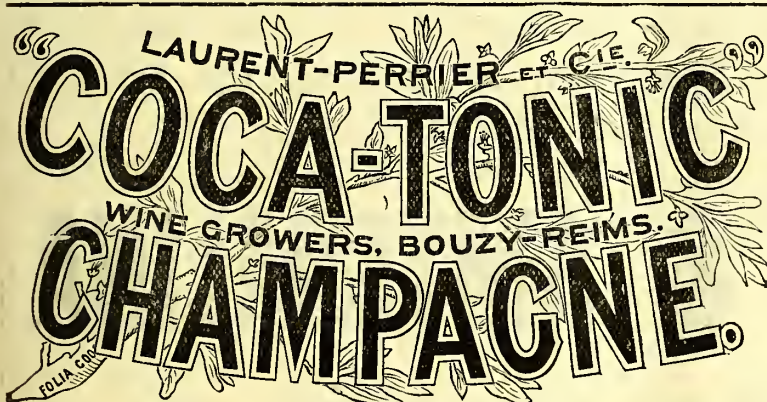
SILVER MEDAL.

|                                         | Per gross. | Extra quality. |                                                   | Per gross. | Extra quality. |
|-----------------------------------------|------------|----------------|---------------------------------------------------|------------|----------------|
| 14. Sample Bottles, dozen parcels .. .. | 5/3        | 6/3            | 1/2 Bottles, flat or round, reputed half-pints .. | 16/-       | 26/-           |
| " " 1/2-gross boxes .. ..               | 6/9        | 6/9            | " " pints ..                                      | 26/-       | 32/-           |
| 1d. Giant " dozen parcels .. ..         | 8/-        | 8/6            | 1 Pint Imperial, round stoppered bottles ..       | 52/-       | 52/-           |
| " " 1/2-gross boxes .. ..               | 8/6        | 9/-            | 12 1/2-Gallon Casks (casks free) .. .. each       | 20/-       | 32/-           |

**ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.**

Square Glass Stoppered Bottles, containing nearly 1/2-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

**MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.**  
CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.



**SUGAR FREE.**

Carefully Standardised.

Prepared by Actual  
Champagne Growers.

Prescribed as the Best  
Restorative Tonic for  
Influenza, and in cases  
of Insomnia, Neuras-  
thenia, etc.

In Bottles, 2/- and 3/9.

Full Particulars of HERTZ & COLLINGWOOD, 4 SUSSEX PLACE, LONDON, E.C.

## THOS. GUEST & CO.

City Works, Carruthers St., MANCHESTER.

### MAKERS OF ALL DESCRIPTIONS OF MEDICATED LOZENGES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and  
Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing  
Preparations. Boiled Sugars, Floral Tablets (1892).

BEFORE BUYING ANY OF THE ABOVE, PLEASE SEND FOR SAMPLES AND COMPARE.

TELEPHONE NATIONAL 235. TELEGRAMS "GUESTO."

## THE MAWSON FILTERS.

(BY ROYAL LETTERS PATENT).

GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.

New Illustrated Catalogue and Prof. Tichborne's special report forwarded on application.

THE MAWSON FILTER CO., 137a Pilgrim Street, NEWCASTLE-ON-TYNE.

SOLD BY ALL WHOLESALE DEALERS.

**WALKER, TROKE & CO.**

WHOLESALE DRUGGISTS,  
65 Bath Street, City Road,  
LONDON, E.C.



SOLE MAKERS OF  
GABRIEL & TROKE'S  
GELATINE CAPSULED  
HORSE BALLS.

Alternative, Condition, Cordial Cough,  
Diuretic, Fever, Physic, Worm, Quinine  
Tonic Balls (Registered 81,291).

GELATINE-COATED DOG AND FOWL PILLS. SAMPLES FREE.



# EUCALYPTUS OIL

.....

We beg to remind the Trade of our advantageous position to supply all descriptions of this Oil. Having a Branch House in Melbourne, we are able to procure both the Australian

## GLOBULUS & AMYGDALINA

qualities first hand, and from our Grasse establishment we obtain our celebrated

## FRENCH GLOBULUS.

guaranteed distilled in the spring or summer, containing 65 per cent. of Eucalyptol. On analysis this will be found to yield a larger percentage than any other kind offered.

*WE ALSO OFFER EUCALYPTOL AT SPECIAL FIGURES.*

**BEFORE BUYING**

**WRITE FOR SAMPLES AND QUOTATIONS.**

**W. J. BUSH & CO., 18 Artillery Lane, LONDON.**



Telephone Number, 1852.

Telegraphic Address—CHEMICUS LONDON.

## ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS

## INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

| Foot of Page                                                  | Foot of Page                                  | Foot of Page                             | Foot of Page                               |
|---------------------------------------------------------------|-----------------------------------------------|------------------------------------------|--------------------------------------------|
| Advertising Balloon Co. .... 30                               | Eastman Photo Co. .... 12                     | Laughland Mackay & Baker .. 49           | Rylands, Dau (Lim.) ..... 17               |
| Allen & Hanbury .... <i>Front Cover</i>                       | Edwards & Son ..... 8                         | Lewie, H. K. .... 11                     | "Rypona" ..... 53                          |
| Anglo-American Drug Co. .... 42                               | Ellis & Son ..... <i>Text 522</i>             | Liebig Co. .... 29                       | Sanitas, The Co. (Lim.) .. <i>Text 522</i> |
| Apollinaris Co. .... <i>Outside Cover</i>                     | Erhardt, W. .... 53                           | Liquor Carnis Co. .... 45                | Saunders Bros. .... 52                     |
| Baillay Bros. .... 44                                         | Exchange Column ..... 12                      | Liverpool Chemists' Price List 11        | Scott & Downe (Lim.) .... <i>Text 522</i>  |
| Barclay & Sons (Lim.) ..... 51                                | Feaver, J. .... 51                            | Liverpool School. .... 10                | Sheffield College ..... 10                 |
| Barnett & Foster ..... 52                                     | Fennings, Alfred .... <i>Outside Cover</i>    | Lloyd, T. Howard, & Co. .... 39          | Silverlock, H. .... 30                     |
| Barnett, A. A. .... 52                                        | Ferguson & Oshorne .... <i>Col. Supp.</i>     | Lothhouse & Saltmer ..... 51             | Singletton & Cole ..... 53                 |
| Barron, Harveys & Co. .... 33                                 | Fink, F., & Co. .... 52                       | Lorenz, H. .... 52                       | Smith, S., & Co. .... 23                   |
| Battle & Co. .... 42                                          | Fletcher, Fletcher & Co. .... <i>Text 522</i> | Lutheni & Co. .... 52                    | Snowdon, Sons & Co. .... 50                |
| Beecham, T. .... 53                                           | Ford, Shapland & Co. .... 8                   | Lyon, Henri ..... 49                     | Solezzi ..... 24                           |
| Berdee & Co. .... <i>Coloured Supplement</i>                  | French Hygienic Society ..... 22              | Martindale ..... 41                      | Sozio & Androli ..... 15                   |
| Blondeau & Co. .... 6, 7, 35                                  | Fullers' Earth Mining Co. .... 43             | Maw, S., Son & Thompson                  | Spurway & Co. .... 18                      |
| Boehm, F. .... 14                                             | Giles Schacht & Co. .... 45                   | <i>Outside Cover</i>                     | Squire & Sons ..... 34                     |
| Boord & Son ..... 16                                          | Glendenning, W., & Sons ..... 53              | Mawson Filter Co. .... 25                | Stevenson, H. E., & Co. .... 5, 52         |
| Botwright & Grey ..... 8                                      | Goodall, Backhouse & Co. .... 24              | May & Baker (Lim.) ..... <i>Cover</i>    | Stevenson & Howell ..... 3                 |
| Bovril (Lim.) ..... 24                                        | Graf, F. .... 52                              | May, Roberts & Co. .... <i>Cover</i>     | Stevens, P. A. .... 52                     |
| Brathby & Hinchliffe (Lim.) .... 13                           | Grimble & Co. .... <i>Text 522</i>            | Mellin's Food ..... <i>Text 522</i>      | Stokes' Check Till Co. (Lim.) .. 30        |
| Brefts (Lim.) ..... 47                                        | Grosmith, J., & Co. .... 14                   | Middlesex College of Pharmacy 10         | Strong, Christy ..... 9                    |
| Brett, F. J. .... <i>Coloured Supplement</i>                  | Guest, T., & Co. .... 25                      | Miller, A., & Co. .... 22                | Tasmanian Eucalyptus Oil Co. .... 50       |
| Brunner, Mond & Co. (Lim.) .. 36                              | Harrison & Waide ..... 30                     | Morrison, R., & Co. .... 44              | Thiellay, E. H. .... 52                    |
| Burrough, Jame ..... 16                                       | Hebden, W. C. .... 48                         | Mumford, G. S. .... <i>Text 522</i>      | Thornton-Pickard Co. .... 52               |
| Burroughs, Wellcome & Co. .... 32, 33, 34, <i>Front Cover</i> | Henry, T. & W. .... 38                        | Ness & Co. .... 52                       | Tomlinson & Hayward ..... 35               |
| Burrow, W., & J. .... 48                                      | Hertz & Collingwood ..... 25                  | Newball & Mason ..... 23                 | Tomlinson, Thomas, & Sons                  |
| Busch, W. J., & Co. .... 26                                   | Hickisson, J. .... 35                         | Norton & Co. .... 40                     | <i>Coloured Supplement</i>                 |
| Businesses for Disposal .. <i>Col. Supp.</i>                  | Hockin, Wilson & Co. .... 4                   | Oakey, J., & Sons (Lim.) ..... 50        | Treant, R. C. .... 15                      |
|                                                               | Howard & Co. .... 48                          | Olams' Chemical Co. (Lim.) .. 49         | Truefitt, H. P. (Lim.) ..... 16            |
|                                                               |                                               | Oppenheimer, Son & Co. (Lim.) 31         | Tunbridge & Wright ..... 9                 |
|                                                               |                                               | Orridge & Co. <i>Coloured Supplement</i> | Tyler, Hayward, & Co. .... 18              |
|                                                               |                                               |                                          | Tyrer, P. .... 25                          |
|                                                               |                                               |                                          | Tyrer, Thomas, & Co. .... 43               |
|                                                               |                                               |                                          | Vaccine Association ..... 53               |
|                                                               |                                               |                                          | Walker, Troke & Co. .... 25                |
|                                                               |                                               |                                          | Warren, A. & J. .... 53                    |
|                                                               |                                               |                                          | Warrick Bros. .... <i>Text 522</i>         |
|                                                               |                                               |                                          | Werner & Pfeiderer (Lim.) .... 14          |
|                                                               |                                               |                                          | Wills & Wootton ..... 10                   |
|                                                               |                                               |                                          | Wyeth, J., & Bro. .... 13                  |
|                                                               |                                               |                                          | Yanates (Lim.) ..... 52                    |
|                                                               |                                               |                                          | Yardley & Co. (Lim.) ..... 14              |
|                                                               |                                               |                                          | Youldon, E. .... 46                        |

## CLASSIFIED LIST OF ALL ADVERTISERS.

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.

|                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACETIC ACID</b><br>Lorenz, H.<br>Morris & Callard (Salts)                                                                                                                                                                                                                                                                                    | <b>BANDAGES</b><br>Bailey, W. H. & Son<br>Damen Belt Co.<br>Ellwood Lee, J., Co.<br>Hatrack & Co., Lim. ("Shoot")<br>Robinson & Sons<br>Schutze, F., & Co.<br>Wood, Vincent                                                                                                                                | <b>BOTTLES</b><br>Ayrton & Saunders<br>Barnett & Foster<br>Barrett, H. H.<br>Brathby & Hinchliffe, Lim.<br>Evans, Sons & Co.<br>Gibbertson, H., & Sons<br>Hearn, Wright & Co.<br>Isaacs & Co.<br>Johnsen & Jørgensen<br>Kilner Broe.<br>Lofodden Cod Liver Oil Co.<br>Maw, S., Son & Thompson<br>Pothe, H., & Co.<br>Bylands, Dan, Lim.<br>Stipendium Stopper Co., Lim.<br>Taylor, F. H., & Co.<br>Tidman & Son<br>Tookood, W.   Youldon, E. | <b>CAMPOR</b><br>Howard & Son<br>May & Baker, Lim.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>CHEST PROTECTORS</b><br>Ayrton & Saunders<br>Hockin, Wilson & Co.<br>Liverpool Patent Till Co.<br>Maw, S., Son & Thompson<br>Newbery, F., & Sons<br>Schutze & Co.   Solport Bros<br>Wood, Vincent                                                                                                                                                                                                                                                                       |
| <b>ACIDS</b><br>Bonilton J., & Co., Lim.                                                                                                                                                                                                                                                                                                        | <b>BATH &amp; FLESH GLOVES</b><br>Barclay & Sons, Lim.<br>Chemists' Association, Lim.<br>Maw, S., Son & Thompson<br>Scopier Broe.<br>Wood, Vincent                                                                                                                                                         | <b>BRUSHES</b><br>Evans, Sons & Co.<br>Hovenden & Sons<br>Kent, G. B., & Sons                                                                                                                                                                                                                                                                                                                                                                | <b>CARBOLIC ACID</b><br>Hearn, C. & Co.<br>Stevenson, H. E., & Co. (Lim.)<br>Wandsworth Chemical Works,                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>CHLOR. OF LIME</b><br>Gormumt Sanitary Co.<br>Hebden, W. C.<br>National Chemical Co.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ADVERTISING SPECIALITIES</b><br>Coresan, J. B.   Harris, J.<br><b>AERTD &amp; MINRELS</b><br>Apollinaris Co.<br>Barnett & Foster<br>Brathby & Hinchliffe, Lim.<br>Chemists' Association, Lim.<br>Association, Lim.<br>Ellie & Son (Ruthin)<br>Idrie & Co., Lim.<br>Ingram & Boyle<br>Jewsbury & Brown<br>Mille & Co. (Bourne)<br>Oberbrunnen | <b>BATH SALTS</b><br>Lander, Anderson & Co.<br>Tidman & Son, Lim.                                                                                                                                                                                                                                          | <b>BUTTER COLR, &amp; CO.</b><br>Boulton, J., & Co., Lim.<br>Crawshaw & Co.<br>Tomlinson & Hayward<br>Wells & Richardson Co.                                                                                                                                                                                                                                                                                                                 | <b>CSCRA SAGRADA</b><br>Anderson & Co.<br>Duncan, Flockhart & Co.<br>Evans, Sons & Co.<br>Farnes, & Co.<br>Harker, Stagg & Morgan<br>Moss, J., & Co.<br>Parke, Davis & Co.<br>Squire & Sons<br>Stearns, F., & Co.                                                                                                                                                                                                                                                                                                        | <b>CHLORODYNE</b><br>Blyton, Astley & Co.<br>Davenport (Browne's)<br>Towle, A. P., & Son                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ALCOHOLS</b><br>Howard & Sons (Cinchona)<br>Macfarlan, J. F., & Co.<br>Smith, T. H., & Co.                                                                                                                                                                                                                                                   | <b>BEESWAX</b><br>Burdwar & Co.<br>Evans, Sons & Co.<br>Kemp & Son                                                                                                                                                                                                                                         | <b>BORAX</b><br>Howard & Sons                                                                                                                                                                                                                                                                                                                                                                                                                | <b>CHEMICALS</b><br>Berger, Kahler & Co.<br>Boelm, Fred. K.<br>Boehring, C. F., & Sohns<br>Boulton, J., & Co., Lim.<br>Brunner, Mond & Co., Lim.<br>Burton, W., & Sons<br>Evans, Sons & Co.<br>Goodall, Backhouse & Co.<br>Graf, F.,   Harrington Bros.<br>Hill, A. S., & Son   Clarke<br>Hodgkinson, Treacher &<br>Morris & Callard   Moss & Co.<br>Oppenheimer, Son & Co.<br>Smith, F. H., & Co.<br>Stevenson, H. E., & Co.<br>Tyrer, T., & Co.<br>Washington Chemical Co.<br>White, A., & Sons<br>Zimmermann, A. & M. | <b>CHLOROFORM</b><br>Duncan, Flockhart & Co.<br>Macfarlan, J. F., & Co.<br>Smith, T. H., & Co.<br>Wright, Layman & Umney<br>Zimmermann, A. & M.                                                                                                                                                                                                                                                                                                                            |
| <b>AMMONIA</b><br>May & Baker, Lim.<br>White, A., & Sons<br>Woolley Sons & Co.                                                                                                                                                                                                                                                                  | <b>BICARB. SODA</b><br>Brunner, Mond & Co., Lim.<br>Howard & Sons<br>May & Baker, Lim.                                                                                                                                                                                                                     | <b>BUNSEN BURNERS</b><br>Berend & Co.                                                                                                                                                                                                                                                                                                                                                                                                        | <b>CHALK, PRECIP.</b><br>Levermore, Aug., & Co.<br>Nicholls, G. W.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>COCA &amp; CHOCOLTS</b><br>Cadbury Bros.   Christy & Co                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ANILIN COLOURS</b><br>Pick, Lange & Co.                                                                                                                                                                                                                                                                                                      | <b>BIPALATINOIDS</b><br>Oppenheimer, Son & Co.                                                                                                                                                                                                                                                             | <b>CACHOUS</b><br>Blensdale & Co.<br>Blyton, Astley & Co.<br>Raines & Co.   Warriok Bros.                                                                                                                                                                                                                                                                                                                                                    | <b>CHOCOLATE</b><br>Howard & Sons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>COCA WINE</b><br>Armbricht, Nelson & Co.<br>French Hygienic Soc.<br>Lorimer & Co.<br>Stephen Smith & Co. (Hall's)                                                                                                                                                                                                                                                                                                                                                       |
| <b>APPARATUS</b><br>Bennett, Sons & Shears<br>Brand, O., & Co.<br>Christy, T., & Co.<br>Deroy Fils Aine<br>Rogers P.                                                                                                                                                                                                                            | <b>BOOKS</b><br>Hargreaves, Dr. M. D.<br>Heinemann,   W. Müller, P.<br>Martindale's Extra Pharmacopoeia<br>Squire "Companion"                                                                                                                                                                              | <b>CAPSULES</b><br>Denaul, J. (Medicinal)<br>Duncan, Flockhart & Co.<br>Evans, Sons & Co.<br>Hatrack & Co., Lim. (Dun's)<br>Hooper, B., & Co.<br>Lloyd, T. Howard, & Co.<br>Lothhouse & Saltmer<br>Maw, S., Son & Thompson<br>Parke, Davis & Co. (Co. Lim.)<br>Patent Stopper Box and Stamp<br>Richardson, John, & Co. (Leicester), Lim.<br>Warriok Bros.   Wylyes, Lim.                                                                     | <b>COCAINE-HYDRO.</b><br>Howard & Sons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>COD-LIVER OIL</b><br>Allen & Hanbury<br>Barron, Harveys & Co.<br>Evans, Sons & Co.<br>Hill, A. S., & Son<br>Hockin, Wilson & Co.<br>Kemp & Son<br>Lofodden Cod Liver Oil Co<br>Lorimer & Co.<br>Möller, P.   Moss, J., & Co.<br>Oppenheimer, Son & Co.<br>Richardson, J., & Co., Lim.<br>Smith, T. H., & Co.<br>Spratt's Patent (Dox Cakes)<br>Scott's Emulsion<br>Stevenson, H. E., & Co.<br>Terrol Co. (antitubercle)<br>Woolley Sons & Co.<br>Wright, Layman & Umney |
| <b>BAKING POWDER</b><br>Goodall, Backhouse & Co.                                                                                                                                                                                                                                                                                                | <b>BOXES</b><br>Austin & Co. (Cardboard)<br>Ayrton & Saunders<br>Evans, Sons & Co.<br>Ford, Shapland & Co.<br>Kent, G. B., & Son<br>Kilner Bros.   Maxime & Co<br>Kirtley, G. C.<br>Patent Stopper, Box, and<br>Stamping Co. (Lim.) (Tin)<br>Renou, T. (Cardboard)<br>Robinson & Sons<br>Rylands Dan, Lim. |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>COFFEE</b><br>Erhardt, W. (Malt)                                                                                                                                                                                                                                                                                                                                                                                                                                        |



**COLLAPSE TUBES**

Bette &amp; Co.

**COMBS**

Horsenden &amp; Sons

**COMP. MEDICINES**Allen & Hanbury  
Blyton, Astley & Co.  
Burroughs, Wellcome & Co.  
Hooper, B. & Co. | Leo & Co.  
Lloyd, T. Howard, & Co.  
Parks, Davis & Co.  
Richardson, J., & Co., Lim.**CONCENT. LIQRS.**Baiss Bros., & Co.  
Cooper & Co.  
Fletcher, Fletcher & Co.  
Lloyd, T. Howard, & Co.  
Oppenheimer, Son & Co.  
Richardson, J., & Co., Lim.**CONFECTIONERY**

Randall &amp; Son

**CORN CURES**

Gardner, C.

**COTTON WOOL**

Haynes, G., &amp; Co. (Absorbent)

Robinson &amp; Sons (Absorbent)

Sanger, J., &amp; Sons

**CRSED LINSEED**

Barclay &amp; Son, Lim.

Mumford, G. S. | Sizer Bros.

**DENTIFRICES, &c.**

Beecham, T.

Bronnley, H., &amp; Co.

Fetiman &amp; Co.

Hanson, O. | Horsenden &amp; Sons

Jewsbury &amp; Brown

Lakeman, J. J. | Stevens, P. A.

Luttrell &amp; Co.

Sutton, C., &amp; Co.

Warrick Bros. | Wilson, A.

Woods, W. (Arecia Nut)

**DIPHTHERIA**

REMEDY

Jacques &amp; Co.

Messer, Lucas &amp; Bruring

**DINECTANTS**

Barclay &amp; Son, Lim.

Beezler, J. W., &amp; Brooks, T.

Drysdale, J. W., &amp; Co.

Fletcher Bros. &amp; Co.

Government Sanitary Co.

Hebden, W. C.

Jeyes' Sanitary Compounds Co.

Laks, Millar &amp; Co.

Mackay, Mackay &amp; Co.

Mason, C. E., &amp; Co.

May &amp; Baker, Lim.

National Chemical Co.

Nee &amp; Co.

Odams' Chemical Co., Lim.

Sanitas Co., Lim.

Seabury &amp; Johnson

Tyrer, T., &amp; Co. Lim.

Wandsworth Chemical Works.

**DOG MEDICINES**

Spratt's Patent, Lim.

**DRUGGISTS' SUN.**

Avron &amp; Saunders

Barclay &amp; Son, Lim.

Bleasdale &amp; Co., Lim.

Chemiste's Association, Lim.

Evans, Lescher &amp; Webb

Evans, Sons &amp; Co. (Savars)

Fever, J.

Fordham, W. R., &amp; Sons, Lim.

Hatriek &amp; Co., Lim.

Hockin, Wilson, &amp; Co.

Horsenden &amp; Sons

Howard, J., &amp; Co.

Kay Bros., Lim.

Maw, S., Son &amp; Thompson

May, Roberts &amp; Co.

Newbery, F., &amp; Sons

Parker &amp; Co., Lim.

Quelch, H. C.

Reynolds &amp; Branson

"Rypona"

Sanger &amp; Sons | Schutze &amp; Co.

Tidman &amp; Son | Toogood, W.

Tunbridge &amp; Wright

Wood, Vincent

**DRUGS**

Allen, S., &amp; Sons (Grinders)

Bleasdale &amp; Co., Lim. | Graf, F.

Hopt, R. Morrison, E., &amp; Co.

Oppenheimer, Son &amp; Co.

Phillips &amp; Co. (Grinders)

Richardson, J., &amp; Co., Lim.

Saunders Bros.

Stevenson, H. E., &amp; Co.

**DYES, &c.**

Crawshaw &amp; Co.

Hatriek &amp; Co., Ltd., 'Diamond'

**EAU DE COLOGNE**

Farina, J. M.

Hockin, Wilson &amp; Co.

Muhlen, F.

Van Oppeken &amp; Co.

**ECZEM**

Cullwick's Skin Ointment

Cullwick's Blood Tablets

**EMBRICATION**

Day &amp; Sons

Kilman, Sons &amp; Co.

Fambrook &amp; Co.

Harvey &amp; Co.

"Rypona"

**ESSENCES**

Boulton, J. &amp; Co., Lim.

Burrell, Lim. (Beard)

Pratley &amp; Hinchliffe, Lim.

Burgoyne, Burdidge &amp; Co.

Bush, W. J., &amp; Co.

Fletcher, Fletcher &amp; Co.

Goodall, Backhouse &amp; Co.

Idrie &amp; Co., Lim.

Lorimer &amp; Co.

May &amp; Baker, Lim.

Newhall &amp; Mason

Eglands, Dan, Lim.

Stevenson &amp; Howell

Tyrer, P. (Anchovies)

Tyrer, T., &amp; Co.

Woolley, Sons &amp; Co.

**ENEMAS**

Barclay, Lim.

Evans, Sons &amp; Co.

Hatriek &amp; Co., Lim. ("Rack")

Putney, J., &amp; Sons

Sanger &amp; Son | Wood, Vincent

**ENGRAVERS**

Corsan, J. R.

**ESSENTIAL OILS**

Allen, S., &amp; Sons

Boehm, Fredk.

Bush, W. J., &amp; Co.

Dodge &amp; Olcott

Drysdale, J. W., &amp; Co.

Evans, Sons &amp; Co.

Jackson, J., &amp; Co.

May &amp; Baker, Lim.

Poppelroter, W.

Ransom, W., &amp; Sons

Rylands, Dan, Lim.

Sozio &amp; Andrioli

Spurway &amp; Co.

Stevenson, H. E., &amp; Co.

Stevenson &amp; Howell

Symes &amp; Co. | Todd, A. M.

Tsatt, R. C. | Warrick Bros.

Widenmann, Broichs &amp; Co.

Wright, Layman &amp; Umney

**ETHER**

Duncan, Flockhart &amp; Co.

Howards &amp; Sons

Macfarlan, J. F., &amp; Co.

May &amp; Baker, Lim.

Robbins, J., &amp; Co.

Tyrer, T., &amp; Co.

White, A., &amp; Sons

Woolley, Sons &amp; Co.

Wright, Layman &amp; Umney

**EUCALYPTUS**

Bush, W. J., &amp; Co.

Paulding, E. H., &amp; Co.

Lauchland, Mackay &amp; Baker

Tasmanian Eucalyptus Oil Co.

**EXTRACT MEAT**

Armour &amp; Co. | Brand &amp; Co.

Idrie &amp; Co. (Viking Co.)

Liebig Co.

Liquor Carnis Co.

Mason, G., &amp; Co., Lim.

Wyeth, J., &amp; Brother

**EXTRACTS, FLUID**

Allen &amp; Hanbury

Allen, G., &amp; Co.

Bleasdale &amp; Co., Lim.

Burgoyne, Burdidge &amp; Co.

Evans, Sons &amp; Co.

Fletcher, Fletcher &amp; Co.

Hearson, Squire &amp; Francis

Hooper, B. &amp; Co.

Lloyd, T. Howard, &amp; Co.

Moss &amp; Co.

Parks, Davis &amp; Co.

Potter &amp; Clarke

Ransom, W., &amp; Sons

Richardson, J., &amp; Co., Lim.

Wright, Layman &amp; Umney

**EXTRACTS, SOLID**

Allen, G., &amp; Co.

Ransom, W., &amp; Sons

**FERRO-BOTTLES**

Burroughs, Wellcome &amp; Co.

(Thermo Safe)

Chemiste's Association, Lim.

Evans, Sons &amp; Co.

Gilbertson, H., &amp; Sons

Hearn, Wright &amp; Co.

Hockin, Wilson &amp; Co.

Horsenden &amp; Sons

Kilmer Bros.

Marriott, E., &amp; Co.

Maw, S., Son &amp; Thompson

Oppenheimer, Son &amp; Co.

Shirley Bros. | Youlton, E.

**FILTERS**

Fordham, W. R., &amp; Sons, Lim.

Festum Germ Filter

**FORMULE**

Brooks, T.

**FLY PAPERS**

Buchan, D.

Ford, Shapland &amp; Co.

Marshall, E.

Mather, W., Lim.

May, Roberts &amp; Co.

Silverlock, H. J. Strong, Christy

Tidman &amp; Sons

Tunbridge &amp; Wright

**FOOD (Infants & Invalids)**

Allen &amp; Hanbury

Benger's Food

Brand &amp; Co.

Cerebos Salt Co., Lim.

Evans, Sons &amp; Co.

Glendinning, W., &amp; Sons

Goodall, Backhouse &amp; Co.

Hearson, Squire &amp; Francis

Liquor Carnis Co.

Liebig Co. | Lorimer &amp; Co.

Mason, G., &amp; Co., Lim.

Mellins Food | Nestlé, H.

Tyrer, F.

Viking Food Co.

Wyeth, J., &amp; Bro.

**FULLERS' EARTH**

Barclay &amp; Son, Lim.

Fullers' Mining Co., Lim.

**GAS BURNERS**

Incandescent Gas Light Co., Ltd

**GELATINES**

Astley, Cooper &amp; Co.

Boehm, F.

Heine, J., &amp; Co.

**GINGER ALE**

Burgoyne, Burdidge &amp; Co.

Chemists' Alerated &amp; Mineral

Water Association, Lim.

Ellis &amp; Son

Mills, R. M., &amp; Co.

Roes &amp; Sons, Lim.

**GLYCERINE**

Blyton, Astley &amp; Co. (Pastilles)

Boehm, F. | Fink &amp; Co.

Price's Candle Co., Lim.

**GUM**

Fink &amp; Co. (Arabic, &amp;c.)

**GRANULAR PREP.**

Bishop, A., &amp; Sons

Blyton, Astley &amp; Co.

Evans, Sons &amp; Co.

Hearson, Squire &amp; Francis

Lloyd, T. Howard, &amp; Co.

Richardson, J., &amp; Co., Lim.

Tyrer, T., &amp; Co.

Wright, Layman &amp; Umney

**HATER PREP.**

Hater, F. W.

Chesabrough Co.

Edwards &amp; Co.

Treutheit, H. P., Lim.

**HERB BEER EXTS.**

Newhall &amp; Mason

Pegg, J. A.

Potter &amp; Clarke

Southall Bros. &amp; Barclay

**HOMOPATHIO**

Epps, James &amp; Co., Lim.

Keene &amp; Ashwell

Loth &amp; Ross

Watson &amp; Wates

**HYPOPHOSPHITES**

Duncan, Flockhart &amp; Co.

Fellows

Fletcher, Fletcher &amp; Co.

Gibson, R. C. | Symes &amp; Co.

Tyrer, T., &amp; Co.

**INHALERS**

Burroughs, Wellcome &amp; Co.

Gilbertson, H., &amp; Sons

Hockin, Wilson &amp; Co.

Martindale, W.

Toogood, W.

**INK**

Bewley &amp; Draper, Lim.

**INSECTICIDES**

Barclay &amp; Son, Lim.

Fleming's Oil and Chemical

Co. (Lim.) (Moths)

Hockin, Wilson &amp; Co.

Lorimer &amp; Co.

Sandford &amp; Sons

Steiner &amp; Co.

Stevenson &amp; Howell

**IRON, REDUCED**

Borger, Kahler &amp; Co.

**JELLOIDS**

Warrick Bros.

**KETCHUP**

Tyrer, P.

**KOLA**

Christy &amp; Co.

Moss, John, &amp; Co.

**LEMONS**

Casser &amp; Co.



**QUININE SALTS**

Boehringer, C. F., & Sohne  
Hookin, Wilson & Co. (Wine)  
Howards & Sone  
Smith, S., & Co. (Wine)  
Zimmermann, A. & M.

**RENNET**

Duncan, Flockhart & Co.  
Tomlinson & Hayward  
Warren, A. & J. (Vells)

**RUBBER GOODS**

Birnbaum, B., & Son, Lim.

**SACCHARIN**

Greiff, R. W., & Co.

**SACHETS**

Warwick Bros.

**SALICIN**

Macfarlan & Co.  
Smith, T. & H., & Co.

**SALICYLIC ACID**

Burgoyne, Burbridge & Co.  
Zimmermann, A. & M.

**SALTS**

Hebbeler, K.

**SARSAPARILLA**

Wilkinson's

**SAUCES, PICKLES**

Goodall, Backhouse & Co.  
Tyrer, P.

**SCHOOLS, &c.**

Central School of Chemistry  
City School of Chemistry and  
Pharmacy, Lim.  
London Homoeopathic and  
Medical School  
Manchester Col. of Pharmacy  
Metropolitan Col. of Pharmacy  
Newcastle School  
Northern College of Pharmacy  
North of England School  
Royal Dick Veterinary College  
Sheffield College of Pharmacy  
South London School of  
Pharmacy, Lim.  
Strand College  
The School of Pharmacy  
Westminster College

**SCIENTIFIC INSTRUMENTS**

Darton & Co.

**SEA SICKNESS REMEDY**

Yanatas, Lim.

**SEEDS**

Potter & Clarke

**SEIDLITZ POWDERS**

Blyton, Astley & Co.  
Hookin, Wilson & Co.  
Hors & Co. | May, Roberts & Co.

**SELTZOGENES**

Bratby & Hinchliffe, Lim.  
British Syphon Manufactur-  
Evans, Sons & Co. (ing Co.  
Gerant, E., & Co.  
Hookin, Wilson & Co.  
May, Roberts & Co.

**SHAVING**

Hovenden & Sone (Euxesls)  
Lloyd, Mrs. A. S. (Euxesls)  
Truett, H. P., Lim.

**SHEEP DIP**

Fletcher, Bros. & Co.  
Jeyes' Sanitary Compound Co.  
Ness & Co.

Odams' Chemical Co., Lim.  
Tomlinson & Hayward, Lim.

**SHOP FITTERS**

Bowling & Govier  
Bygrave, J. & W.  
Evans, Sons & Co. Howlett, S.  
Josephs, F. | Treble, G., & Son

**SOAP**

Ayrton & Saunders  
Barclay & Sons, Lim.  
Blondeau et Ole (Vinolia)  
Bronnley, H., & Co.  
Cook, E., & Co.  
Evans, Sons & Co.  
Fordham, W. B., & Sons, Lim.  
Jeyes' Sanitary Compound Co.  
Lorimer & Co. | Muhliens, F.  
Pears, A. & F., Lim.  
Tidman & Son  
United Alkali Co., Lim.  
Wright, Layman & Umney  
Yardley & Co.

**SODIUM FRIDE.**

Barton, W., & Sons

**SPECTACLES**

Botwright & Grey  
Darton, F., & Co.  
Optical Sight-Testing Co., Ltd.  
Raphael, J., & Co.

**SPONGES**

Creswell Bros. & Schmits  
Evans, Sons & Co.  
Marks, Henry, & Sons (Lim.) |  
Peterson, M., & Co.

**STARCHE**

Barclay & Sons, Lim.

Critchley (Glose)

**STOPPERS**

Austin & Co (Sprinklers)  
Barnett & Foster  
Birnbaum Stopper Co.  
Melin, C.  
Orchard, E. (Poison)  
Patent Stopper, Box, and  
Stamping Co. (Lim.)  
Stipendum Stopper Co., Lim.

**STAMPS (RUBBER)**

Hickison, J.

**STOVES**

Clark, S., & Co., Lim.

**SUGAR OF MILK**

Boehm, Fredk.

**SURGICAL**

Ayrton & Saunders  
Bailey, W. H., & Son  
Barclay & Sons, Lim.  
Burgoyne, Burbridge & Co.  
Cocking, J. T.  
Edwood Lee, J., & Co.  
Eschmann Bros. & Walsh  
Ferris & Co. Harris, J.  
Hatrick & Co., Lim.  
Haywood, J. H.  
Kahnemann & Krause  
Krohn & Sesemann  
Liverpool Patent Lint Co.  
Macfarlan, J. F., & Co.  
Mather, W., Lim.  
Maw, S., Son & Thompson  
Oppenheimer, Son & Co.  
Powell & Barstow  
Quelch, H. C.  
Richardson John, & Co., Lim.  
Robinson & Sons  
Schutze, F., & Co.  
Statham, H., & Co.  
Victoria Rubber Co.  
Wood, Vincent

**SYPHONS**

Barnett & Foster  
Bratby & Hinchliffe, Lim.  
British Syphon Co.  
Chemists' Aerated & Mineral  
Waters Association, Lim.  
Fordham, W. B., & Sons, Lim.  
Idris & Co., Lim.  
Kilner Bros. | Melin, C.  
Eydlands, Dan, Lim.

**SYRUPS**

Blyton, Astley & Co.  
Cooper & Co.  
Fletcher, Fletcher & Co.  
Idris & Co., Lim. (Liquors)  
Stevenson & Howell

**TABLETS**

Blyton, Astley & Co. (Sulphur)  
Caspary & Co., Lim.  
Oorsan, J. R. (Advertising)  
Richardson, J., & Co., Lim.  
(Compressed)

**TEA**

Burroughs, Wellcome & Co.  
(Tabloids)  
Gt. Tower Street Tea Co.  
Horniman, W. H. & F. J. & Co.  
Pearse & Meeking | Lim.  
Teething Pads  
Marriott, E., & Co.

**THERMOMETERS**

Bailey, W. H., & Son  
Barclay & Sons, Lim.  
Darton, F., & Co.

**TRACTURES**

Evans, Sone & Co.  
Hewlett, C. J., & Son  
Lloyd, T. Howard, & Co.  
Moss, John & Co.  
Parke, Davis & Co.  
Wileys, Lim.

**TOBACCO & CIGES**

Frankel Bros.  
Singleton & Cole (Lim.)

**TOILET**

Aspinall, E.  
Allen & Hanburys (Chrisma)  
Bates, F. W. | British Paper Co  
Burroughs, Wellcome & Co.  
(Lanoline)  
"Cosmosline"  
Dee Oil Co., Lim.  
Hookin, Wilson & Co.  
Hovenden & Sons  
Maw, S., Son & Thompson  
Quelch, H. C.  
Truett, H. P., Lim.

**TOOTH PASTE**

Beecham, T.  
Jewsbury & Brown  
Lutbeni & Co.  
Maw, S., Son & Thompson  
Sutton, O., & Co.  
Truett, H. P., Lim.  
Wilson, A. (Bunter's)  
Woods, M. (Areca)

**TOOTH PREPS.**

Hermanine

**TRADE MARKS**

Browne, T. B.  
Trade Mark Society, Lim.

**URETHRANE**

Howards & Sons  
Vaccine Association (Lymph).

**VALUERS & TRANSFER AGENTS**

Berdoo & Co. | Brett, F. J.  
Crocker, G. B., & Co.  
Fergusson & Osborne  
Orridge & Co.  
Tomlinson, Thos. & Son

**VETERINARY**

Bird & Storey | Day & Son  
Day, Son & Hewitt  
Elliman, Sone & Co.  
James, W. H. (Blisters)  
Jeyes' Sanitary Compound Co  
Kemp & Son  
Lloyd, T. Howard, & Co.  
Rookledge, F. E.  
Spratt's (Dogs)  
Walker, Troke & Co.

**VACCINATION**

Vaccine Association (Lymph).

**VASELINE**

Chesebrough Co.

**VERMIN KILLER**

Steiner, E., & Co.

**VINEGAR**

Champion & Co., Lim.

Grumble & Co.

**VINOLIA Superf't'd**

Blondeau & Cie.

**WHOLE & EXPT DRUGGISTS**

Allen & Hanburys  
Allen, S., & Son | Bais Bros.  
Baron, Harveys & Co.  
Bleasdale & Co., Lim.  
Boyce Bros.  
Burgoyne, Burbridge & Co.  
Bush, W. J., & Co.  
Ourling & Co. (Inset)  
Evans, Sons & Co.  
Evans, Lescher & Webb  
Fassett & Johnson  
Ferris & Co.  
Fox, W., & Sons | Graf, F.  
Goodall, Backhouse & Co.  
Harker, Stagg & Morgan  
Hearon, Squire & Francis  
Hewlett & Son  
Hill, A. S., & Son  
Kemp, Wm. & Son  
Lloyd, T. Howare, & Co.  
Lothouse & Saitner  
Macfarlan, J. F., & Co.  
Mackay, Mackay & Co.  
Potter & Clarke  
Prosser, Taylor & Co.  
Raines & Co.  
Raines, Clark & Co.  
Richardson, J., & Co., Lim.  
Stevenson, H. E., & Co.  
Symes & Co.  
Walker, Troke & Co.  
Willows, Francis & Butler  
Woolley, Jas., Sons & Co.  
Wright, Layman & Umney  
Wileys, Lim.

**WINES, SPIRITS**

Armbricht, Nelson & Co. (Coca)  
Burroughs, J.  
Coleman & Co., Lim.  
Dowden & Co., Lim.  
Durrant & Co.  
French Hygienic Socy. (Coca)  
Glendenning, W., & Sons  
Goodall, Backhouse & Co.  
Hirst, Brook & Hirst, Lim.  
Lorimer & Co.  
Mullar, A., & Co. (Orange)  
Phillips, G., & Co. | Robinson, B.  
Smith, S., & Co. (Orange)  
Warren, A. & J.  
Wright, Layman & Umney

**Liebig** THE BEST  
**Company's**

Absolutely Pure and Clear.

[3]

WORLD-KNOWN

**Extract  
of Beef.**

FRAY BENTOS OX TONGUES ARE THE BEST.



# STOKES' CASH TILL.

Reduced Price **55/-** Latest Improvements.

(Sent on Trial seven days, on receipt of two references.)

Particulars and Testimonials on application.

**G. R. STOKES & CO., LTD.,**  
**HANLEY, STAFFS.**

**ADVERTISING BALLOON CO.**  
**ALTRINCHAM, ENGLAND.**



**Dying Devil with Nose & Ears.**  
Dies when he squeaks.  
And squeaks when he dies.

1 grs. 16 $\frac{1}{2}$  grs.; 5 grs., 11 $\frac{1}{2}$  grs.; 10 grs., 12 $\frac{1}{2}$  grs.

Advertising Balloons, printed with name, trade, and address, from 12/- per gross; each balloon fitted with the improved long nozzle, so that a child can blow them out. We put name, &c., one side, and any figure the other; also Carboys and Pestles. Advertising Balloon Squeakers with Advertisement, 3 - gross 10-gross lots. As a testimony to the quality of our manufactures, the largest advertising firms in the world have adopted our goods. Makers of all kinds of Pessaries, Skins, Sheet Rubber Surgical Appliances, &c., &c. Special terms for Shipping and the Wholesale.

SAMPLE ROOMS—

9 NEWTON STREET, PICCADILLY, MANCHESTER.

A. D. DOUGLAS, Agent,

321 Victoria Arcade, Auckland, New Zealand.  
54 Queen Street, Melbourne, Australia.

## CHEMISTS' & DRUG STORE PRINTING

### A SPECIALITY

AT EASY PRICES

BY

## HARRISON & WAIDE,

Kirkstall Road, LEEDS.

LINES:—

Medical Labels of every description,  
Bottle Cases—Plain and Printed,  
Book and Sheet Prices Lists,  
Circulars, Handbills, Pamphlets.

**TINTED PAPERS,**  
Blue and Seidlitz Demy.

**OUR WHITE DEMY**  
DEFIES COMPETITION.

Please write for Samples Post Free.

**SILVERLOCK'S**  
**POSTAL ORDER**  
**RECORD BOOK.**  
WITH PRINTED HEADINGS.  
Size 8 x 5, bound in cloth.  
Price 1/6, Post free.

SAMPLES  
Free by Post.

SAMPLES  
FREE BY POST.

**SILVERLOCK'S**  
**CHEMISTS' SLIP LABELS**  
From 1/ per 1000; a reduction on large quantities.  
**CHEMISTS' COUNTER BILLS**

Good Quality, 7 $\frac{1}{2}$  x 5 .. 10,000, 15/ | Second Quality, 7 $\frac{1}{2}$  x 5 .. 10,000, 12/6  
" 9 x 5 $\frac{1}{2}$  .. 10,000, 22/6 | " 9 x 5 $\frac{1}{2}$  .. 10,000, 18/

**CHEMISTS' PILL LABELS**

From 1/3 per 1000; a reduction on large quantities.

COPPER-PLATES FOR SLIP AND DISPENSING LABELS  
ENGRAVED FREE OF CHARGE.

Labels of every description, Price Lists,  
Illustrated Trade Catalogues, Prospectuses,  
Pamphlets, Show Cards, &c.

**H. SILVERLOCK,**  
Medical Label & General Printer,  
92, BLACKFRIARS ROAD, LONDON, S.E.

**THE**  
**CLINICAL CLERK'S**  
**GUIDE TO URINE TESTING**  
On 8-fold linen-lined card,  
9 in. by 5 in.  
Price 1d., Post free.

SAMPLES  
Free by Post.

**THE WHOLESALE**  
**AND RETAIL**  
**DRUGGISTS' PRICE BOOK**  
BY D. ELLIOTT.  
New Edition, 1894. Revised according to  
the latest Edition of the British Pharmacopoeia, 1894. Pocket size, bound  
in leather, price 8/6.  
This Edition can be used  
as a Typographic Code.

**JOHNSON'S**  
**COMPENDIUM**  
**FORM.**  
For Recording Trade Receipts and Expenses.  
(Specially adapted for Chemists.)  
Eighteenth Edition. Revised price 8/6.  
Or for Three Years with a Balance  
Sheet, bound in one Volume,  
price 10/6.



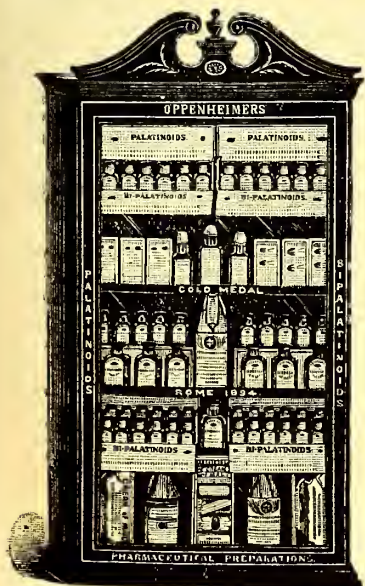
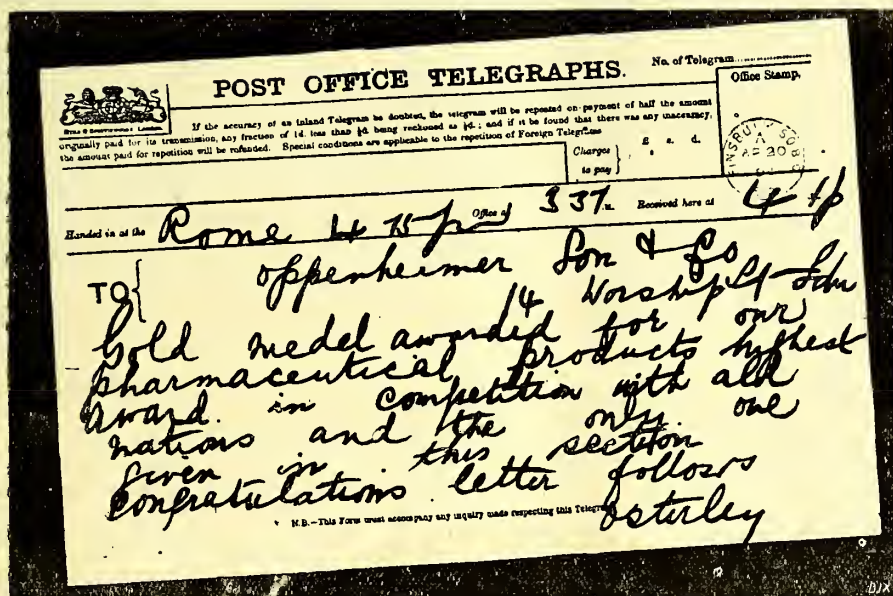


## Why should I not go with the times, and Stock Up-to-date Goods ?

All progressive Chemists recognise that there is nothing which is more up to date than the

### PALATINOID AND BI-PALATINOID,

because they are truly scientific forms of medication, and physicians recognise the fact. They are also fully recognised by the greatest Continental authorities, as testified by the following copy of telegram received by us directly after the meeting of the Eleventh International Congress of Medicine last spring:—



Very many specialities offered are unsaleable, or, at any rate, slow in leaving the shelves. The idea is to keep preparations which are in constant demand. This desideratum is found in the Palatinoid and Bi-Palatinoid.

With a view to inducing Chemists to carry stock, we provide, for the better display and consequent readier disposal of our manufactures, a handsome piece of furniture which is an ornament to any establishment. It consists of a rosewood cabinet, inlaid with ivory wood, and fitted with bevelled plate-glass door as depicted here.

This we supply on receipt of order for our products to the value of £20, which amount constitutes the purchaser as possessing a depot of our manufactures. We assist the Chemist to dispose of these scientific preparations by letters and samples to the physicians of his vicinity, and the provision of literature.

*We respectfully solicit Correspondence on this subject.*

**OPPENHEIMER, SON & CO., Ltd.**  
**LONDON.**





# EMOL-KELEET IN SURGERY.

LONDON,]

APRIL 13.

[1895.

As further evidence of the utility of the new product we quote the following extract from a letter from an eminent surgeon: 'I beg to state that since August 30th, 1894, I used 'Emol-Keleet' to a big and sluggish ulcer on a man's arm with better results than I had previously obtained from dressings. The ulcer closed up rapidly after commencing with 'Emol-Keleet,' and it is now practically healed up. It held on a stubborn course for about four months, but, being due to blood poisoning, I was not surprised; yet I firmly believe that if I had had the 'Emol-Keleet' earlier the ulcer would not have been so sluggish in healing.'

## EMOL-KELEET

is a purified, natural, emollient, absorbent, dusting powder, of impalpable texture, as soft as down to the touch. It in no way resembles the ordinary and unstable compound astringent or starchy absorbent powders. Chemically, Emol-Keleet may be said to be closely allied to superior qualities of Fullers' Earth, yet it is quite distinct from the usual varieties of that substance, in that it contains a considerable percentage of Steatite (known commonly as soap stone), as well as of Silica, Alumina, traces of Calcium Salts, and an appreciable trace of Ferrons Oxide. The delicate flesh-pink tone of Emol-Keleet—one of its much-admired characteristics—is due to the presence of Ferrous Oxide, while its soft silky feel is largely occasioned by the presence of Steatite. Emol-Keleet, though comparatively new to the medical profession, has been known for some little time to a limited circle, and has been the subject of investigation by competent hands, both chemico-technicologically and therapeutically; but it was not brought



specially to the attention of the profession until the meeting of the British Association, at Newcastle-on-Tyne, when an exceedingly interesting paper was read during the session of the Dermatological Section, by the President, Dr. Allan Jamieson, of Edinburgh. The interest aroused by the therapeutic notes given in his paper by this distinguished authority on skin diseases brought Emol-Keleet prominently into view, and a brief recapitulation of the points of the paper referred to may be useful. It was shown that,

## AS A DUSTING POWDER,

Emol-Keleet, a perfectly innocuous and inoffensive material, was therapeutically superior to any previously known. When placed upon the tongue—one of the simplest and yet most severe tests as to utter impalpability which can be applied to a powdered substance—there was an entire absence of any sensation of grittiness. It was noticed also, as a remarkable property of this powder, that when a small quantity, say a teaspoonful or so, was added to a basinful of

hard water—such as one frequently meets with in limestone areas—it effected an immediate softening influence. Used in this manner with warm water, Emol-Keleet acts as a natural soap, cleansing the skin thoroughly, and at the same time leaving it soft and smooth. The learned President pointed out as evidence of the activity and effect of this compound that the workmen engaged in its purification found that their previously horny palms became so much softened by continued contact with it, that they could not use their hands for rough work without incurring severe friction. This fact led Dr. Jamieson to try the effect of Emol-Keleet upon horny accretions encountered in some states of keratosis of the palms and soles. When mixed with water to the consistence of a paste, and painted on pretty thickly—evaporation being prevented by covering the whole area with oiled silk, gutta-percha, or other impervious tissue—it was found that the epidermal masses became softened and loosened, and could actually be peeled off painlessly, eventually leaving the part so treated soft, smooth, and of a natural pinkish hue. In view of this experience, it is probable that Emol-Keleet

## WILL HAVE A WIDE SPHERE OF USEFULNESS

in the treatment of many skin affections both local and constitutional, for it possesses many qualities which will be highly appreciated by dermatologists. Used as an ordinary dusting powder, it was found to possess anti-pruritic properties, and relieved very markedly the itching of the skin now and then complained of in urticaria or during the eruptive period of measles. The absorbent qualities of Emol-Keleet, with its mild astringent tendency, stamp it as a perfectly harmless and absolutely unequalled dusting powder. In moist or weeping conditions of the epidermis, such as one encounters so often in eczematous or erythematous affections, the application of Emol-Keleet is followed by beneficial effect. From the dermatologist's point of view Emol-Keleet is a most useful addition to the list of remedial agents used

## IN THE TREATMENT OF CUTANEOUS DISEASES.

During the recent vaccination (June, 1894) in Edinburgh, it was found that Emol-Keleet, on being applied to the part inoculated, at once by its soothing and emollient influence allayed any irritation present.

A correspondent, practising in the North of Scotland, writes:—

"Within the last fortnight I came across a very severe case of eczema infantilis of the face, head, and other parts of the body. After trying some other remedies with doubtful effect I betought me of your 'Emol-Keleet' and gave some to the mother to use as directed. Its effect has been most gratifying to myself, and highly beneficial to the little sufferer, who is only seven months old."

*Supplied to the Trade, in metal boxes, at 8/6 per dozen.*

## BURROUGHS, WELLCOME & Co., MANUFACTURING CHEMISTS, LONDON.

NEW YORK: Rhineland Building, Rose and Duane Streets.  
MELBOURNE: 456 Collins Street West.  
PARIS: Pharmacie Centrale de France.

BRUSSELS: Chas. Delaere & Co.  
TRIESTE: Pharmacie Serravallo.  
VIENNA: The Feld Apotheke, Stefansplatz, 8.

BUDAPEST: Pharmacie Torok.  
GENOA: Piazza de Ferrari, 30.  
ROME: 134 Via Frattina.

Cable and Telegraphic Address—"BURCOME LONDON."



## THE VALUE OF SACCHARIN

IN

DIABETES MELLITUS, GLYCOSURIA, GOUT,  
OBESITY, AND ALL DISEASES IN WHICH  
SUGAR IS FORBIDDEN.

## SACCHARIN "TABLOIDS."

There are certain illnesses and *Diet in Disease*, diseased conditions of the body which can only be effectively treated by a strict observance of a suitable diet and by a manner of living that operates against the consequences of the diseases, or at least keeps them within such bounds that the general health of the patient remains good for a long while, in spite of his diseased condition. A special diet has to be scheduled for each separate individual, according to his physical state, and since dietetic regimen is almost always a penance, he is sure to be thankful if his food can be made more palatable and more varied by the utilisation of a harmless, indifferent spice.

Diabetic patients, from the very fact that sugar is denied to them, often have such a craving for sweet things, that the withholding of them exercises a great influence on their mental condition. And this will make manifest the enormous benefit which the introduction of Saccharin has conferred upon all those whose conditions make it necessary that sugar in every form should be avoided. It is not too much to say that monotonous and unpalatable diets do more harm to many patients than the diseases from which they suffer.

The absolute harmlessness of Saccharin has been conclusively proved by numerous and thorough scientific experiments and researches, and experience has corroborated the results arrived at. It has been shown that Saccharin produces no injurious effects whatever upon the body; that it is discharged after a short stay, unchanged and in its entirety, through the urine and feces; that it is absolutely indifferent as regards the functions of the body; lastly, that it exercises no influence on either assimilation or digestion.

When, therefore, sugar (the ordinary carbohydrate) in any form is prohibited as an article of food, or as spice, it may be asserted without fear of contradiction that the administration of Saccharin, while satisfying the palate of the patient,

cannot possibly aggravate the existent conditions; on the contrary, its antiseptic influence may be for good.

The utilisation of Saccharin is also of great importance in all pharmaceutical products on the dietetic value of which weight is laid—for instance, in the preparation of medicaments for children and convalescents, in products intended to raise the tone, such as medicinal wines, stomach cordials, &c. It may also be substituted for sugar in the making up of all medicines, in which it is needful to make the volume as small as possible to enable patients to swallow them with ease.

Saccharin may be said to have two qualities not characteristic of other sweetening substances. Firstly, it is unfermentable—indeed, it is the only unfermentable and permanent sweetening agent; secondly, it operates antiseptically, and prevents decomposition and fermentation. It is, therefore, not only remarkable for its intense sweetness, but in contradistinction to other sweetening substances, it does not spoil; on the contrary, it acts as a conserving medicine.

Saccharin "Tabloids" are portable, and of the greatest convenience to those travelling or away from home during the day, as a "Tabloid" or two will sweeten a cup of tea, coffee, &c., as well as sugar. A little spoon accompanies each bottle of the Soluble Saccharin; this spoon once or twice full is also sufficient to sweeten a cup of tea or other beverage.

Saccharin should never be taken in a pure state. Some idea of its power will be conveyed when it is understood that one part of it will give a very sweet taste to ten thousand parts of water. Tasted in too large a quantity, it acts upon the nerves in such a way as to paralyse the sense of taste. "Wherever Saccharin in the dry state is applied to the tongue, it calls forth such an intense perception of taste that the sweetness is overpowered by the irritation of the nerves, analogously to very bright light and very loud sounds, which do not produce respectively more colours or greater perception of tone, but nervous irritations of a most unpleasant nature."—Dr. Adolph Hofman, of Leipsic.

Pure Saccharin is supplied to the Trade in 1-oz. bottles, at 5/- per doz. Soluble Saccharin, in  $\frac{1}{4}$ -oz. and 1-oz. bottles, 14/- and 46/- per doz. Saccharin "Tabloids," in bottles of 100 and 200, 7/- and 12/6 per doz.

*Its use in medicines.*

*Its antiseptic influence.*

*Saccharin "Tabloids."*

*Its intense sweetness.*



**BURROUGHS, WELLCOME & Co., Manufacturing Chemists, LONDON.**

Cable and Telegraphic Address—"BURCOME LONDON."

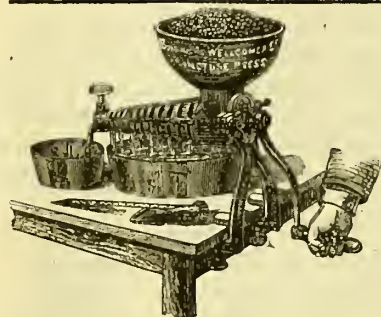


# FURTHER REDUCTION IN PRICES OF "VASELINE."

|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| "VASELINE" (Pure). Card Cases. | No. 1 size, 3/0½; No. 2, 6/1; ½-lb. Tins, 7/-; 1-lb. Tins, 12/- per doz. |
| "VASELINE," Blue Seal.         | No. 1 size, 21/-, and No. 2 size, 42/- per gross.                        |
| "VASELINE" Cold Cream.         | No. 1 size, 4/9; No. 2, 7/-; No. 3, 12/-; No. 4, 21/- per doz.           |
| "VASELINE" Camphor Ice.        | Tins or Tubes, 3/0½ per doz.                                             |
| POMADE "VASELINE."             | No. 1 size, 3/11, and No. 2 size, 7/10 per doz.                          |
| "VASELINE" Toilet Soaps.       | Unscented, Perfumed, or Tar, 20/6 per gross.                             |

CHESEBROUGH MANUFACTURING CO., 42 Holborn Viaduct, LONDON, E.C.  
PROPRIETORS AND SOLE MAKERS OF "VASELINE."

## TO THE DRUG TRADE.



# TINCTURE PRESSES.

We beg to notify that we have ceased to act as Agents for the supply of Tincture Presses. In order, therefore, to clear our Stock, we offer the regular size presses at 11/- each, and the small size at 8/6 each, net cash. These prices are only a fraction above cost.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

PUBLISHED 1894.

Sixteenth Edition. Much Enlarged, and Revised up to date. Price 12s. 6d.

# SQUIRE'S COMPANION TO THE BRITISH PHARMACOPŒIA.

"No man who has the faintest aspiration to be in the van of pharmaceutical progress can afford to ignore the claims this exact and comprehensive epitome of pharmaceutical information has to a place at his elbow."—*Chemist and Druggist*, March 24, 1894.

"As representing the actual condition of pharmaceutical practice in the United Kingdom, the work has, however, long since far out-grown the latest edition of the Pharmacopœia, to which it was originally intended to serve as a companion, and, as containing a store of valuable information, it may now be regarded as in many respects anticipating the next issue of that authority. Few statements as to which any doubt existed have been adopted without careful examination."—*Pharmaceutical Journal*, June 16, 1894.

"It is considerably ahead of the average text-books, and affords a valuable standard of reference to those who are anxious to keep pace with pharmaceutical advances, the allusions relating in many instances to current literature bearing the date of the present year."—*Lancet*, March 24, 1894.

"The present edition has evidently been revised with the greatest care, of which evidences are to be found on almost every page. Altogether, the improvements are so great that many of those who already possess the work will find it worth while to have the new issue."—*Practitioner*, June, 1894.

"The contents extend far beyond the limits of the Pharmacopœia, as a very large number of unofficial drugs and preparations are considered with the same care and minuteness as the others."—*British Medical Journal*, June 16, 1894.

London: J. & A. CHURCHILL, 11 New Burlington Street, W.





ESTABLISHED 1858.

CHIEF OFFICES: 42 CANNON STREET, LONDON, E.O.  
 BRANCH OFFICES: 231 ELIZABETH STREET, MELBOURNE,  
 VICTORIA, AND EMPIRE CHAMBERS, YORK STREET,  
 SYDNEY, N.S.W.

## CONTENTS: Vol. XLVI. No. 15.

| PAGE                               | PAGE                                |
|------------------------------------|-------------------------------------|
| Bankruptcies and Failures .... 518 | Irish News ..... 512                |
| Business Changes ..... 517         | Legal Reports ..... 518             |
| Constructive Criticism of the      | New Books ..... 532                 |
| British Pharmacopœia ..... 526     | New Companies and Company           |
| Correspondence ..... 533           | News ..... 520                      |
| Counter Practice ..... 521         | Next Week ..... 536                 |
| Deaths ..... 517                   | Personalities ..... 517             |
| Editorial Comments:—               | Pharmaceutical Preliminary          |
| The Dental Profession ..... 522    | Examination ..... 515               |
| Sheep-dips ..... 523               | Pharmaceutical Society of           |
| How Age and Soil Influence         | Ireland ..... 514                   |
| Cinchona ..... 524                 | Scientific Notes ..... 523          |
| Notes ..... 524                    | Scotch News ..... 512               |
| English News ..... 510             | The Winter Session ..... 516        |
| French News ..... 513              | Trade-marks Applied for ..... 520   |
| Gazette ..... 519                  | Trade Reports ..... 530             |
| Glasgow's Ideas of Adulteration    | Wills of Deceased Chemists .... 528 |
| and Drug-standards ..... 528       |                                     |

## COLONIAL TRADE.

OWING to the Easter Holidays the publisher is making up next week's issue earlier than usual, a proceeding which is further necessitated by the fact that the number is the Colonial Issue, and is receiving gratifying support from advertisers. Those who have not yet written to him about special announcements will please note that he should receive instructions from them by Tuesday, after which proofs cannot be submitted, as we close for press on Wednesday morning. We recall the fact that the issue is to be a Colonial one, embracing the East and West Indies, South Africa, Ceylon, the Straits Settlements, China, and Japan. It will be a good number for business, and we should like every firm to try what a good thing Colonial trade is.

## POSTCARD COMPETITION.

## APRIL.

FOR fourteen vacancies on the Pharmaceutical Council eighteen gentlemen have accepted nomination, viz.:—

|                            |                                 |
|----------------------------|---------------------------------|
| Allen, C. B., London       | Harrison, J., Sunderland        |
| Atkins, S. R., Salisbury   | Hills, W., London               |
| *Bateson, T., Kendal       | Martindale, W., London          |
| Bottle, A., Dover          | Newsholme, G. T. W., Sheffield  |
| *Campkin, A. S., Cambridge | Richardson, J. G. F., Leicester |
| Carteighe, M., London      | *Savory, A. L., London          |
| *Corder, O., Norwich       | Southall, A., Birmingham        |
| Grose, N. M., Swansea      | Young, J. R., Warrington        |
| Hampson, R., Sevenoaks     | *Wills, G. S. V., London        |

Those marked \* are not at present members of the Council.

We ask subscribers, their employes, or members of their families to arrange these names as they think they will appear when the poll is declared. We shall give at least one guinea as a prize to the person who places the names correctly, or, if no one places the whole eighteen, then to the card which gives the nearest number to that, or we may divide the prize in case of equality. Postcards will be received up to April 30.

## Summary.

WE note on p. 511 a number of alterations in store prices.

MR. C. C. BELL submits a design for a mortar which will pour (p. 534).

THE dental profession appears to be decreasing in numbers (p. 522).

AN attempt is being made in Paris to institute municipal pharmacies (p. 513).

THE Clerkenwell Magistrate finds that strong acetic acid sold for dilute is a technical adulteration (p. 518).

THE sheep-dipping season is approaching: we, therefore, give an article on page 523 dealing with the manufacture of dips.

WE print the questions given at the Pharmaceutical Preliminary Examination in Great Britain this week (p. 515).

CONTINUING the selections from our counter-practice competition, we give some prescriptions for dyspepsia remedies (p. 251).

A BUDAPEST correspondent informs us that nothing has been heard there of legalising the employment of women in pharmacy (p. 534).

THE Home Secretary has practically declined to include wholesale-druggists' warehouses under the Factory and Workshops Act (p. 510).

A NEW edition of the Liverpool chemists' price-list has been published, and it affords the opportunity for some remarks on prices (p. 525).

BOTH Rayleigh and Mendeléeff have expressed their views on argon, and an ingenious commentator finds a reference to it in a tale by Poe (pp. 524-5).

THE discussion on anti-cutting is continued in our Correspondence columns, in which opinions for and against the movement are expressed (p. 533).

BERTHELOT (who has just been entertained to dinner by French scientists) has announced that argon can be simply prepared by the use of lithium (p. 513).

THE French Government are seriously undertaking an inquiry regarding the sale of French imitations of English proprietary medicines, and Henry's magnesia is probably to be made a test case (p. 513).

DR. B. H. PAUL states in our Correspondence columns that the special report of the Pharmaceutical Society's Research Committee was not adopted by the Council, and he replies to each of the committee's findings in regard to the Aconitine Research (p. 533).

THE Irish Pharmaceutical Council discussed an appeal for the reduction of a penalty which had been made to the Lord-Lieutenant by a person who had been fined £4 for selling arsenic, and resolved to request the Lord-Lieutenant not to accede to the request (p. 514).

THE Glasgow Town Council are making an effort to have the Sale of Food and Drugs Act amended. In their report on the matter they deal largely with the sale of drugs and proprietary medicines, advocating that the formulae of the latter should be printed on the labels (p. 528).

MR. MICHAEL CONROY contributes the fifth of our series of B.P. papers, dealing with liquid extracts, regarding which he suggests some alterations of the official processes, and puts forward recommendations for practical experience in regard to others which it is desirable to officialise. Processes are fully commented upon by the author (pp. 526-7).

FURTHER evidence of the end of the winter session is shown in this issue. The Liverpool Students' Society has closed with a good paper on the chemistry of photography, and the Glasgow Association with suggestions regarding a new Pharmacy Bill and for the revision of the Pharmacopœia. Mr. W. L. Currie, who has been re-elected President of the latter Association, spoke out strongly in regard to the necessity for early closing in Glasgow (p. 516).





## English News

*The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.*

### Wholesale Druggists and the Factories Acts.

In the House of Commons on Thursday, April 4, Sir C. Dilke asked the Home Secretary whether he would issue instructions to inspectors of factories and workshops that a place where manual labour is exercised for the purpose of gain in such processes as those of sorting rags, packing goods, or bottling liquors, is a workshop within the meaning of the Factory and Workshop Acts and the Public Health Act, 1875, without regard to the question whether tools or implements are used in such process; or whether he would, if necessary, introduce such an amendment to the Factories and Workshops Bill of this Session as will provide that all such places shall be treated as workshops within the meaning of those Acts.

Mr. Asquith said he had no power to give the instructions suggested. The widest possible interpretation, consistent with the Act of 1878, was already given to the term workshop, and to extend it as suggested would include most wholesale grocers, chemists, and drapers, besides necessitating a very large increase in the staff of inspectors. He must not be understood as holding that workshops of this kind might not be properly dealt with by statute, but, as in the case of shops, they ought to be subject to special legislation.

### The Early-closing Bill.

Sir J. Lubbock's Committee met again on April 5. Mr. Greenwood, of Ashton-under-Lyne, Secretary of the Northern Federation of Hairdressers; Mr. J. E. Beaumont, Honorary Secretary of the Birmingham Early-closing Association; and Mr. Macpherson, representing the National Union of Shop-assistants, Warehousemen, and Clerks, gave evidence in advocacy of legislative action.

### Adulteration at Sheffield.

In the annual report of Mr. A. H. Allen, F.C.S., public analyst for the city of Sheffield, presented to the City Council on April 10, Mr. Allen states that he had received and analysed, under the Sale of Foods and Drugs Act, during the twelve months, 185 samples of milk, 29 of butter, 1 of margarine, 6 of cheese, 12 of strawberry jam, 1 of malt vinegar, 6 of medicine, 3 of paregoric, 3 of sal volatile, 3 of tincture of rhubarb, 6 of whisky, and 6 of gin—a total of 261. Mr. Allen was re-appointed analyst for the ensuing year, at a salary of 100*l.* a year, for which sum he undertakes to analyse and report on samples not exceeding 150 in number. In the event of the samples exceeding this number, an additional fee of 10*s.* 6*d.* per sample in excess of 150 will be paid.

### An Overdose of Chloral.

An inquest was held at Merthyr, on Thursday evening, touching the death of Mr. Thomas Clarkson Wakeling, architect, who died on the previous morning. Mr. Keer, assistant to Dr. Webster, said the deceased came to the surgery on Wednesday morning, and complained that he felt very fatigued, having had very sleepless nights. Witness prescribed for him what he had had on previous occasions—chloral and bromide of potassium. The instructions on the bottle were that two tablespoonfuls were to be taken every four hours. Each dose contained about 23 gr. of chloral, and, supposing the deceased swallowed the medicine that was missing from the bottle (produced), he took 90 gr. in about an hour and a half. That would be quite sufficient to cause death. The jury returned a verdict of death by misadventure through taking an overdose of chloral.

### The Half-holiday.

The principal chemists and druggists in Wakefield have decided to close their establishments at 4 p.m. on Wednesdays.

The chemists of Barnsley, who have enjoyed the weekly half-holiday for about four years, are likely to lose it this year, as one of their number refuses to fall in with the rest. The custom has been to close at 1 p.m. on Thursdays. All but one closed last Thursday, as usual, at 1 o'clock, but the decision about the future is questionable.

Mr. James Casterton, chemist and druggist, Market Rasen, is taking an active part in securing a uniform system of early closing for the town. He and a fellow tradesman will interview all the tradesmen of the town with a view to obtaining the closing of all business establishments at an early hour each Thursday.

At Market Harborough the chemists and druggists have decided to close at an early hour each Thursday from Easter to October; at Leighton each Wednesday at 2 p.m. during the summer months; and at Petersfield each Thursday at 5 p.m.

At Hanley the chemists and druggists have abandoned all attempts to agree upon a uniform hour for closing.

### Arrowroot from the Druggist.

The Holborn Board of Guardians have decided their arrowroot question to this extent—viz., "That Natal arrowroot be ordered through the drug-contract for all sick patients in the various establishments of the Union—infirmaries, schools, and workhouses." When the contracts were being taken a few weeks ago, Mr. Geo. Eade, chemist, of Goswell Road, questioned if the contractor could supply the best (Natal) arrowroot at 2½*d.* per lb. Without comment, Dr. Hunter moved the above resolution, Mr. Eade seconded, and it was adopted.

### The Barrister and the Chemist.

On Monday at the Wandsworth County Court, before Judge Lushington and a jury, Mr. Heaton, J., barrister, residing at Streatham, sued Mr. Savege, a chemist, and resident manager to Mr. Lovely, a chemist, who carries on a business at 6 Bank's Parade, Streatham Common, to recover damages for alleged illegal distress. Mr. Lyndon Bell, who appeared for the defendant, admitted that his client distrained on the plaintiff's goods for a month's rent, he then occupying several rooms over the shop at Streatham Common. If the tenancy had been a quarterly one his client acted illegally; if a monthly tenancy they had a perfect right to distrain.

Mr. Heaton and his wife, and Mr. Savege and his wife gave their respective versions of the negotiations, Mr. Savege stating that in the course of the tenancy he asked Mrs. Heaton to become a monthly tenant, and that she gladly agreed; Mrs. Heaton stating that no word of the kind was said to her. Ultimately the jury found a verdict for the defendant. Plaintiff gave notice of appeal.

### London Gas-examiners.

There were forty-three candidates for eight vacancies as gas-examiners to the London County Council which have just been filled. The selected candidates are Dr. L. T. Thorpe (late Librarian to the Chemical Society), Messrs. A. H. Boilau, H. J. Lewin, J. H. Gilbard (assistant to Dr. Bernard Dyer), Hills, J. H. Starling, F.I.C., Graves, and Pinchin. These gentlemen take temporary duty as occasion may require, at a salary of 2*l.* 2*s.* per week, and are assigned to permanent stations in rotation as they fall vacant, at the salary of 120*l.* per annum.

### County Council Chemists Dine.

On Thursday, April 4, the temporary chemical staff of the London County Council, who are engaged on the water inquiry for the Council's Water Bills, entertained the permanent staff to dinner at the Holborn Restaurant. The chair was occupied by Mr. W. J. Dibdin, chemist to the Council, and the vice-chair by Mr. R. Grimwood, chief chemical assistant. After the loyal toasts, Dr. Lapraik, in the name of the temporary staff, proposed the health of the chairman, and, in turn, the permanent staff and temporary staff were similarly honoured. An excellent musical programme was provided by Messrs. Boilau, Lewin, Goddard,



Lapraik, and Turner, with Mr. Griffiths at the piano. Some amusing recitations were also rendered by Mr. J. H. Coste. The proceedings were kept up somewhat late. Mr. Dibdin left the chair in Mr. Grimwood's favour, who afterwards gave way to Mr. E. J. Parry.

#### Exonerated.

Mr. Hickman, chemist, of Newbury, Berks, was called at a Police Court, at Kingsclere, to account for the sale of laudanum, which, being taken by a farmer named John Easley, nearly ended in a fatality. A 1-oz. bottle, labelled "Laudanum—Poison," was found bearing the chemist's name. Mr. Hickman produced a copy of the Pharmacy Act, and showed that he had done more than the law required. He knew Easley, and had no hesitation, he said, in serving him, as the man was perfectly rational, and stated that he wanted the laudanum for veterinary administration.

#### Changes in Store-prices.

The Army and Navy Stores (which will be closed from April 12 to 15) have announced the following changes in prices:—Allen & Hanburys' Tabellæ are now sold at 10d. a bottle; cod-liver oil at 1s., 1s. 11d., and 3s. 8d.; malted food at 9½d., 1s. 7d., and 3s. 10d.; and Café Vierge at 1s. 1½d. B. W. & Co.'s Antacid Tabloids are fixed at 1s. per bottle; carbolic disinfecting-powder (15 per cent.) is reduced to 4d. a large tin or 9s. 6d. per cwt. The Stamped Carbolic Smoke-ball is priced 9s. 3d. Edwards' Harlene is reduced to 3s. 4d. per bottle, and in the same category are dental silk, 4d. a reel; Keating's Insect-powder, large tin, 3s. 4d.; Mead's Plaster, 1s. a yard. S. & J. Silk & Glass Plaster, 1s. 6d. a yard; S. & J. Mustard-plaster, 9d.; and belladonna-plaster, 4½d., or 2s. a yard; and Pepper's Quinine-and-iron Tonic, 2s. 11d. Amongst the additions to the drug department are Wakelee's "Camelline," 2s. 1d.; Leprince's "Cascarine," 2s. 7d.; Exar "Cs. 6d.; effervescing saline, 1s. 2d. and 2s.; and Vichy waters for Seltzogenes, 3-pint 6d., and 5-pint 8d. a dozen.

The Plymouth depôt of the Stores, situated at 173 and 174 Union Street, contains a drugs and perfumery department, and a rearrangement is being made, under which a qualified dispenser will be employed at the depôt.

#### Medical Museum.

When the British Medical Association meets in London on July 30 next an exhibition of drugs and foods, instruments, and books will be held on the first floor of the Examination Hall, Victoria Embankment. Sanitary and ambulance appliances will be accommodated on the terrace at King's College. Particulars in regard to the exhibition may be obtained from Dr. J. W. J. Oswald, 11 Chandos Street, Cavendish Square, W.

#### Boy Thieves.

At the Yarmouth Quarter Sessions, on Monday last, Percy Boyce (15), errand-boy, and Thomas Harper (16), hair-dresser's assistant, were indicted for breaking into the house and shop of Alfred George Annett, chemist and druggist, of Yarmouth, and stealing therefrom the sum of 23s. Boyce had been in the employ of prosecutor as errand-boy, and with the other lad paid a visit to prosecutor's shop on the evening of February 11, when only the servant was at home. Subsequently Mr. Annett found that the yard door had been unlocked, and that the amount in question had been stolen. The prisoners were arrested at Norwich. Harper then said that he had stolen the money, and that his companion had shown him where it was kept. Boyce also admitted the truth of this statement. Boyce had been once before convicted. After further evidence had been given, the Recorder bound over the boys to come up for judgment if called upon.

#### North London Chemical works.

At the meeting of the London County Council on Tuesday, the Building Act Committee reported that Mr. J. Borrowman, jun., had applied, on behalf of Messrs. Fletcher, Fletcher & Co., for a modification of the conditions attached to the Council's consent of February 26, 1895, to the erection of a one-storey addition in front of the North London Chemical-works, 469 Holloway Road, by the omission of the condition as to

the surrender of the land in front of the addition. Having fully considered this application, the committee recommended that the consent be given to the erection of the addition, subject to the conditions that it be commenced within six months and completed within eighteen months from the 26th day of February, 1895; that no part of the proposed addition or any structure or erection connected therewith exceed 16 feet in height above the footway; that the whole of the land in front of the addition be left open for the use of the public. This was agreed to.

#### Carbolic-poisoning.

Severin Holm (45), a Norwegian, residing in Liverpool, being depressed in mind owing to pecuniary difficulties, on Tuesday of last week took some carbolic acid. He was taken to the Royal Infirmary, where he lingered until Friday and died.

#### Pharmacy Ball at Plymouth.

The first annual ball of the Junior Section of the Three Towns and District Chemists' Association was held at the Foresters' Hall last week, and proved a decided success. A committee, consisting of Messrs. H. Cantle, Cocks, Fisher, Green, Vickery, and Westcott, had made the arrangements, and Mr. E. W. H. Green acted as M.C.

#### Chemists' Assistants' Association.

A musical and social evening, the last before the completion of the session, was held at the rooms in Great Russell Street last Thursday, April 4, when the chair was occupied by Mr. John Hodgkin, of Herrings & Co. A mixed programme of vocal and instrumental music and recitations was provided, under the direction of Mr. A. K. Melhuish, and was thoroughly enjoyed by the members present.

#### Chemicals for London Sewage.

At this week's meeting of the London County Council the estimates for the year were submitted, and these showed that the sewage-works will require 23,335 tons of lime at 12s. 9d. per ton, and 5,250 tons of sulphate of iron at 16s. 10½d. per ton. There is enough manganate of soda and sulphuric acid to last for the year.

#### L.C.C. Chemists.

The following are the new salaries agreed to by the Council:—The chemist, 700l.; two principal assistants at 350l., 700l.; one assistant, 250l.; one assistant, first class, 215l.; two assistants, second class (162l. 10s. and 187l. 10s.), 350l.; one assistant, third class, 150l.; one assistant, fourth class, 90l.; one assistant, at 3l. a week, 156l. This shows an increase on last year's estimate of 640l.

#### Drug-contracts.

The Gay's Hospital contracts for drugs and chemicals for the ensuing year have been divided between Messrs. John Moss & Co., Messrs. Hill & Sons, and Messrs. Morsons.

#### Sale of Medicated Wines.

Mr. D. A. Thomas on Tuesday introduced a Bill into the House of Commons, the object of which is to abolish the retail sale of spirits, wine, and beer by shopkeepers in England and Wales.

#### Wine-licence.

Mr. Frank Hazlitt, chemist, Market Street, Heywood, applied at the local police court last week for a licence to sell medicated wines. The licence was granted temporarily until August next.

#### Champagne "Sans Sucre."

Mr. Hertz (of Hertz & Collingwood) has been enlightening a *Westminster Gazette* representative on the mysteries of champagne-making. That paper had published some "facts about champagne" which were true enough as far as they went, but were not quite up-to-date. The exact process for making Laurent-Perrier's "Sans Sucre" champagne Mr. Hertz declined to disclose. The secret, he said, was worth its weight in gold. The general principle, however, is as follows:—Taking Laurent-Perrier's "Sans-Sucre" as our type, the wine—the "must"—is made from a due proportion of



selected black and white grapes. Forty to fifty basketfuls are put upon the press at one time, and yield from ten to twelve pieces of wine—the entire process of pressing the first “must” has to be finished in under two hours. The wine is then put into casks. Under the old process, after its first fermentation it becomes a still wine; it is necessary to add sugar to create the second fermentation—3 kilos. are generally used to each 100 litres. Our new process does not call for this, for by its special preparation—a very delicate one it is, too—the wine never becomes a still wine. And, as in the first instance, by our new process, no sugar or alcohol is used, neither is sugar or alcohol added when the wine is put into bottles, or after the “disgorging.” Our system embraces a method by which the natural sugar of the grape is transformed by one fermentation only into carbonic-acid gas and alcohol. In this way the old style of a second fermentation is done away with, the carbonic-acid gas and alcohol being developed under our discovery by one fermentation only, so that the original natural carbonic gas and alcohol are retained from the beginning till the wine is on your dinner-table. The wine is thus the absolutely natural production of the finest Champagne grape from which it is made. Anybody who knows anything about physiology knows that a mixture of sugar and alcohol does not tend towards health, and our wine is properly described in the word *sans-sucré*.



## Irish News

### Tenders Wanted.

Contracts for drugs and medicines, surgical and medical appliances, will be made by the Guardians of the Boyle Union for the workhouse and five dispensaries,

April 13; the Poor-law Board at Castleblayney, including Ballybay, Crossmaglen, and Newtownhamilton, April 17; and the South Dublin Union for twelve months from May 1.

### Business Change.

Mr. Michael A. Donnelly, apothecary, has removed from 187 Great Brunswick Street to 90 Stephen's Green South, Dublin.

### Freedom.

Ganey, the herb-doctor, who was arrested last week, charged with complicity in the Clonmel witch-burning case, has been liberated, there being no evidence to sustain the charge against him.

### Under the Hammer.

The premises in Harbour Lane, Dublin, upon which stands the factory of Messrs Hamilton, Long & Co., pharmaceutical chemists, are announced to be sold by auction at an early date. The property is held in fee-simple, and has fifty-one years of unexpired lease.

Two drug-establishments are announced for sale by public auction, one in Harcourt Road, Dublin, selling by direction of the administratrix of the late R. D. Atkinson, L.P.S.I., and the other in Ormeau Road, Belfast, formerly occupied by Mr. E. Phillips. Both are to be disposed of as going concerns.

### Fires.

At Ennis last Saturday a serious fire broke out in the drug-shop of Mr. Roughtan, Church Street, through the accidental ignition of a cask of lamp-oil.

The drug, oil, and colour establishment of Mr. Michael Hosty, Tuam, was last week destroyed by fire, and the whole town had a narrow escape of being burned.

### Contracts Settled.

We have received intimation since our last issue of the following workhouse contracts which have been entered into:—

Mr. H. V. Golden, Parsonstown, to supply the Borrisokane workhouse and dispensaries.

Mr. W. Collins, Victoria Street, Belfast, to supply the Kilkeel Board.

Mr. M. H. McNamara, L.P.S.I., Tuam, is to supply the Local Board with medicines for the next twelve months.

Mr. Patrick White, chemist, Sligo, is to supply the medicines, and Messrs. Fannin, Dublin, the medical and surgical instruments to the Swinford Board.

The contract for medicines, medical and surgical appliances to the Bantry Union and six workhouses of the Union has been given to the Apothecaries' Hall, Dublin.

The *Medical Press* protests against the Carrickmacross Guardians having put aside every chemist or druggist who tendered for the supply of medicines, and given the contract to the keeper of a public-house named Daly.

Messrs. W. Harrington & Sons, Cork, have secured the medicine contract for Clogheen. They are also to supply medicines, surgical instruments, and other necessities to the workhouse and several dispensaries of the local Union.

At Limavady, last week, tenders for the supply of drugs and medicines to the local Union were considered. Messrs. Clarke & Co., Belfast, tendered much more cheaply than the existing contractor, Mr. William Collins, and after Mr. Hopkins, a member of the board, protested against the practice of accepting other than the lowest tender, a show of hands gave the contract to Messrs. Clarke & Co.



## Scotch News

### Female Medical Students.

For the first time in the history of the Edinburgh University ten young women last week passed subjects, of the first professional examination for the degree of

M.B., C.M. Nine also passed in chemistry for B.Sc.

### Another Medical School.

The General Council of the St. Andrews University have confirmed the resolution to found chairs of anatomy and materia medica, and it is the intention of the promoters to make the University a thorough medical school.

### Glasgow Parish Medicines Contract.

At the meeting of the Glasgow City Parochial Board on Tuesday the following five offers for the supply of medicines to the Dispensary were submitted:—The Glasgow Apothecaries' Company, 70*l.* 14*s.* 2*d.*; The New Apothecaries' Company, 70*l.* 19*s.* 1*d.*; Mr. James Taylor, 72*l.* 4*s.* 3*d.*; Messrs. Brown Brothers & Co., 72*l.* 13*s.* 1*d.*; and Messrs. T. Cockburn & Co., 75*l.* 17*s.* 5*d.* The offer of the Glasgow Apothecaries' Company, being the lowest, was accepted. It was also reported that during the past month the outdoor poor of the parish had 475 prescriptions made up in the following dispensaries:—The Glasgow Apothecaries' Company, 43; Messrs. J. & R. Rodman, 140; and Mr. D. P. Walker, 292.

### Competition in Edinburgh.

There seems every reason to believe—what between the infusion of new blood into an existing business and the starting of new ones—that competition among druggists will be pretty keen very shortly in the main thoroughfare leading to the southern suburbs of Edinburgh. A week or two ago we stated that Mr. J. Blenkinsop had bought the business of Mr. Sydney Keith in South Clerk Street, and that Messrs. Inman & Co., the pioneer cutters, were about to open a shop at 1 South Clerk Street. Now it is announced Messrs. Gibson & Co. are to start in No. 19 of the same street, a capacious and handsome shop; while the shop occupied by Mr. R. T. Linton, pharmaceutical chemist, a couple of doors further along, is “To Let.” Messrs. Gibson & Co., who advertise that they “undersell the Drug-stores,” carry on



business at No. 8 Nicolson Street, in the same line of thoroughfare, which is only a few paces from the Scottish Drug Depôt. In their new shop they are evidently going to compete with Inman. They open in a few days, while Inman does not enter their new premises till near the end of May.

## French News.

**FRENCH IMITATIONS OF ENGLISH PROPRIETARY MEDICINES**, concerning which an article was published in THE CHEMIST AND DRUGGIST of July 29, 1893, are at last the subject of a judicial inquiry, and, probably, of a prosecution. Representations have been made to the French Government by the English Foreign Office, and the matter seems to have been taken seriously in hand. It will probably transpire that Henry's magnesia will be made a test-case, but the complaint has been lodged, not on the ground of a trade piracy, but on account of the English Government stamp being imitated. Detectives have evidently been purchasing bottles of Henry's magnesia, for an English pharmacien was recently served with a subpoena to appear at the Paris Law Courts, and, after patiently waiting there for a few hours to learn the cause, he was shown a bottle of the article in question, being informed at the same time that it had been purchased at his pharmacy and that he would be required to prove by various invoices or other satisfactory evidence that the magnesia was bought in a *bonâ-fide* way from England. The case has been brought thus prominently forward by the fact that one of the leading and most respectable of the Paris wholesale houses exported a quantity of the imitation article to an English colony, probably without in any way conniving in the fraud. The bottles were put up quite in the English style, with the Government stamp included. The colonial buyer must have been tempted by the fact that the spurious article only costs 7½d. a bottle in France.

**ANOTHER WAY OF OBTAINING ARGON**.—At Monday's meeting of the Academy of Sciences M. Berthelot read a letter from Professor Guntz, of Nancy, announcing a simpler mode of obtaining argon than that of Lord Rayleigh and Professor Ramsay. He extracts it by the aid of lithium at a moderate temperature in a glass tube.

**PHARMACEUTICAL FAIENCE**.—An important collection of old faience belonging to M. Charles Antig was sold by auction at the Hôtel Drouot, Paris, a few days ago. One of the specimens was a handsome covered pharmacy-vase, decorated with flowers and birds in white on a dark-blue ground, and fixed on a small stand. It is a good example of old Nevers faience, and formerly belonged to the pharmacy of the hospital at Moulins. An amateur purchased it for 2,350f. (94½).

**THE SALE OF ANTI-DIPHTHERIA SERUM**.—M. Georges Leygues, the Minister of the Interior, introduced the proposed law for regulating the sale of anti-diphtheria serum at the Chamber of Deputies last Saturday. He claimed that the matter was urgent, adding that "an infamous traffic is going on in serum obtained from the abattoirs where diseased horses are killed." The text of the Bill was given in THE CHEMIST AND DRUGGIST of March 16 last. After a brief discussion, an amendment, proposed by M. de Mouffort, that pharmacists should only be able to sell the serum on a doctor's prescription, was adopted, and the Bill was passed with but two dissentient votes.

**MUNICIPAL PHARMACY**.—A proposition is at present before the Paris Municipal Council, bearing the signatures of M. Weber, Faillet, and others, for establishing a public service of pharmacy. M. Raoul Bompard, in the name of a committee charged to examine the question, has already presented a report in which the idea is negatived, and consequently it has practically no chance of being carried out. M. Weber and his friends have not acted solely in the interests of the indigent poor, as the latter can always obtain in their arrondissement a letter for a doctor, which

will ensure a free consultation, and any medicaments that may be ordered can be obtained without payment. Everyone, without exception, may thus get medicines free of charge at least once. As a result of the first application inquiries are made, and only those persons who are really without resources continue to receive treatment and medicines gratuitously. The real object in view is to establish a pharmaceutical service selling at cost-price, which is nothing more or less than following in the footsteps of the Roubaix Municipal Pharmacy, whose voting in favour of such an organisation caused a stir twelve months ago. The subject was discussed last year in the Chamber of Deputies and found very little support; while the Council of State, a few months ago, defined very clearly the law on the subject by stating that the management of a pharmacy is a commercial undertaking, and consequently is beyond the functions of a Municipal Council. M. Bompard points out that, if the City of Paris were to undertake to act as pharmacien, the indemnities necessary to buy up the existing "officines" would increase the cost-price of drugs and medicines to a very considerable extent, while in the event of accidents due to errors of dispensing the Council would incur a grave responsibility. It would appear that the idea of the present promoters is to make a sort of manifestation, for which municipal pharmacy is a convenient pedestal. Some ten years ago M. Hovelacque brought forward a similar idea, but it failed to receive serious attention.

**THE BERTHELOT BANQUET**.—The popular demonstration to M. Berthelot as the leading representative of French Science, was successfully carried through last Thursday evening at the Salon des Familles, Avenue de Saint-Mandé. The dinner was served at the popular price of 4s. and it attracted nearly eight hundred guests. "Homage to science, the source of enfranchisement of thought" was the watchword given on the invitation cards. M. Berthelot naturally occupied the place of honour, and was supported on his right by M. Brisson, President of the Chamber of Deputies, and on his left was M. Poincaré, Minister of Public Instruction. At the dessert M. Brisson read a number of congratulatory telegrams, including one from the London Chemical Society, and then called on M. Poincaré for the first speech. The Minister said that, in the name of the University, he considered it a privileged duty to thank M. Berthelot for the devotion of forty-five years of indefatigable labour to which he has consecrated his time, intelligence and life. After referring to recent discoveries by the Secretary of the Academy of Science, M. Poincaré continued: "Chemistry was somewhat, until your time, the slave of notations and signs. You have discarded conventions to elevate it to the high comprehension of the scientific bearings of phenomena. You found chemistry lagging in the sterile work of analysis, but have revived and animated it by synthesis. It was a dead science and you have made it a living one." The Minister continued in the same strain of eulogium and terminated by referring to M. Berthelot as "the glorious representative of science." M. Berthelot replied at some length, after which M. Richet eulogised the celebrated chemist in the name of the pupils of M. Berthelot's laboratory. A number of other speakers followed, amongst whom were M. Brisson, M. Edmond Perrier, Professor at the museum, and M. Emile Zola. M. Perrier gave a humorous description of the food of the future, in the golden age now being prepared by chemists, following somewhat the lines of M. Berthelot's discourse, published in THE CHEMIST AND DRUGGIST, April 14, 1894. M. Perrier added that the problem of life had not been solved; but he thought something must be left for the scientists of the next century to accomplish. It was long past midnight when the tones of the last speech faded into nothingness, and as the Salon des Familles is in a particularly out-of-the-way spot, near the fortifications, no cabs were to be had, so that the unusual spectacle was observed by casual wayfarers of nearly 800 scientists wending their way in groups towards the Place de la Bastille, discussing the problems of transportation, which chemistry has hitherto left out of her reckoning.

**AN APOTHEKER POET**.—Apotheker Maubach, of Friedrichstadt, Schleswig, has written a poem on the occasion of Prince Bismarck's eightieth birthday. His "Bismarck-lied" has been very well received throughout Germany, and in Austria also a considerable number of copies were sold.



## Pharmaceutical Society of Ireland.

THE Council met on April 3. Present:—Mr. William Hayes (President), Mr. Beggs (Vice-President), and Messrs. Wells, Lyons, Montgomery (Belfast), Grindley, J. I. Bernard, Murray (Clones), Whitla (Monaghan), Hodgson (Treasurer), Charles Evans, Conyngnam, and Professor Tichborne.

### ON THE REDUCTION OF PENALTIES.

A letter was received from the Chief Secretary's office, enclosing a memorial which had been received by the Lord-Lieutenant from Patrick J. Burke, of Claremorris, who was convicted on March 7 of selling arsenic without being lawfully qualified to do so, and fined 5*l.* with 1*s.* costs. The document stated that the memorialist had pleaded guilty, and that he had acted in ignorance of the law, as he had been for forty years in the habit of selling poisons, and was not aware that he was precluded from doing so by the Pharmacy Act, 1890. He further stated that the Magistrates said they were convinced that he had no intention of evading the Act, and that they would have imposed a much lower fine if they had power to do so. He gave an undertaking not to sell poisons in future. The Chief Secretary's letter requested the observations of the Council on the memorial.

Mr. GRINDLEY: Was he not warned?

The REGISTRAR: He was not cautioned previously.

Mr. WELLS: The day is gone by for people to be saying that they are ignorant of the Pharmacy Acts. There have been prosecutions in most parts of the country.

Mr. HODGSON: No doubt he is a respectable trader, but it will be a dangerous precedent to assent to the remission of the penalty.

The VICE-PRESIDENT concurred in this view.

Mr. BERNARD: It would be no harm to bring before the Lord-Lieutenant that it is private and not public money that we spend in these prosecutions. He may think we have some ground.

Mr. GRINDLEY: We are entrusted with the duty of carrying out these Acts of Parliament, and if we are not supported we may as well take no further trouble about the matter.

Mr. WELLS: I move that the President write a letter to the Lord-Lieutenant, asking his Excellency not to remit the penalty, and giving our reasons for it.

The VICE-PRESIDENT: I second that motion.

Mr. GRINDLEY: We acted under a section of the Act of Parliament which prohibits the remission of the penalty. We have been considerably out of pocket by these prosecutions.

Mr. WELLS said it appeared from the accounts that the Council's law-costs for the year 1894 amounted to 110*l.* 6*s.* 10*d.*, being only for cases of the kind in question, no parliamentary costs having been incurred; whilst the amount received from fines and costs had only been 33*l.* 9*s.* 2*d.*

The motion was agreed to.

### AN M.P. ON HIS DUTY.

The following letter from Mr. William Field, M.P., was read:—

Blackrock, March 11, 1895.

DEAR SIR,—Kindly convey my appreciation of your members' resolution. I am always willing and desirous to help our Irish institutions. I consider it the duty of our representative men to do so irrespective of other differences.

With best wishes,

WILLIAM FIELD.

### DR. COSGRAVE ON DR. DUFFEY.

The following letter was read from Dr. J. Macdowell Cosgrave, one of the Society's examiners:—

5 Gardiner's Row.

DEAR SIR,—I return the report (Dr. Duffey's) on the Preliminary examinations, which I have carefully read. The only observation I would like to make is that I fail to see how some of the candidates, having only got bare passing-marks in English, arithmetic, or weights and measures, or even in all three, "indicates lamentable deficiency in the elementary education of the candidates." In these subjects 50 per cent. is the bare pass-mark, an average of 40 per cent. in the whole course being all that is

required. It appears to me that gaining 50 per cent. in these three subjects shows that the elementary education of the candidates must have been fairly good.

I remain, &c.,

J. MACDOWELL COSGRAVE.

Mr. WELLS: I think Dr. Duffey is quite right. The regulation was drafted in such a way that men could pass without getting any marks in some of the subjects. But that has been made right, and it can't occur again. Dr. Duffey drew attention to the fact of one or two candidates having got through without even getting passing-marks in some of the subjects.

Professor TICHBORNE: Practically Dr. Duffey's report comes to this—that he is objecting to the standard.

Mr. WELLS: You can get a degree in Trinity College on a much lower standard.

It was decided that the report and Dr. Cosgrave's letter should be transmitted to the Castle, with the following note:—

The Council are pleased to find a very favourable report of Dr. Duffey of the examinations of the previous year; and with reference to his observations on the passing of some candidates in the Preliminary examination who had failed to obtain the required percentage in one or two subjects, the Council applied to their examiner, Dr. Cosgrave, to give his views, which you have herewith.

### RECOGNITION OF SCHOOLS.

A letter was received from the Registrar of the School of Physic of Trinity College applying to the Council to recognise the lectures of that school in materia medica and botany. The letter also contained a request that in the event of the school being recognised certificates of a young gentleman named in the letter who had attended the lectures of the College school should be accepted.

The PRESIDENT said he was sure there was no better teaching than that of Trinity College School.

On the motion of Mr. CONYNGHAM, seconded by Mr. EVANS, the following resolution was unanimously passed:—

That the Trinity College School of Botany and Materia Medica be accepted, provided that the teaching in botany and materia medica be such as is required by the Society.

A letter was received from the Principal of the City School of Chemistry and Pharmacy (Limited), 27 Chancery Lane, London, applying for recognition of their certificates.

The REGISTRAR: We have already recognised this school for chemistry.

The application was referred to the School Committee.

### PERSONAL MATTERS.

Dr. Thomas G. O'Sullivan, licentiate of the Apothecaries Hall, Dublin, was registered (on his application) as a pharmaceutical chemist, and elected a member of the Society.

Mr. William Maxwell, chemist and druggist, wrote stating that his certificate had been accidentally burned.

The REGISTRAR having stated the practice of the Council in such cases, it was ordered that a stamped letter be given to Mr. Maxwell on payment of a fee of 10*s.* 6*d.*

Donations were received from the Colonial Pharmacy Board, Cape Town, of a copy of their "Medical and Pharmacy Register"; and from Mr. Peter Möller, of Dr. F. Peckel Möller's work on "Cod-liver Oil and Chemistry."

Thanks were voted to the donors.

### TRAVELLING-EXPENSES.

The PRESIDENT moved, pursuant to notice, that a sum of 13*l.* 4*s.* 11*d.* be allocated towards the payment of the travelling-expenses of country members of Council who had attended the Council meetings during the year which ended on September 5, 1894. This was the same scale as had been allowed in the previous year, but the amount was one-third less.

Mr. GRINDLEY seconded the motion, which was unanimously agreed to.

### WEALTH ACCUMULATES.

On the motion of Mr. HODGSON, it was agreed that of a balance of 575*l.* 17*s.* 8*d.* lying in bank 500*l.* should be invested in Two-and-Three-quarter per Cent. Consols.



## LIMITED COMPANIES' CERTIFICATES.

Several reports were adopted, including one from the Declarations Committee, which recommended the acceptance of several certificates, but the rejection of one signed by the chairman of a "limited company."

Mr. WELLS remarked, in reference to the certificate last mentioned, that if all the members of the limited company were qualified pharmacists the certificate would be legal.

Some other business having been disposed of, the Council separated.

## EXAMINATIONS.

The following have passed the Preliminary examination:—Messrs. S. A. Billsland, R. E. Levis, T. Arnold; R. J. Compton and H. I. Grubb, equal; G. R. Campbell, J. Gorry. N. Graham, and R. Heatley, equal; G. H. Batt, A. N. Cole, J. T. Doherty, and D. Dowling, equal; W. E. Bredin, J. Ring, J. O'Connor, S. J. McMahon; H. L. W. Haslett and F. W. Spinks, equal; L. T. Cole and D. Manson, equal. Five candidates were rejected.

The following have passed the examination for Registered Druggists:—Messrs. J. F. Corcoran, R. Kerin, E. P. Murray, and G. Twinem. One candidate was rejected.

## Pharmaceutical Society of Great Britain.

## "FIRST" EXAMINATION.

THE following are the questions given on Tuesday, April 9:—  
LATIN.

(Time allowed—from 11 A.M. to 12.30 P.M.)

I. For all candidates. Translate into Latin:—

1. The judge's daughters are very miserable.
2. We shall set out from Carthage.
3. Had your sisters been ordered to praise that boy?
4. He asked whether this was true or not.
5. Three hundred of us are prepared to conquer or die.

II. Translate into English either A (Caesar) or B (Virgil).

(Candidates must not attempt both authors.)

## A. CAESAR.

1. Divico respondit: Ita Helvetios a majoribus suis institutos esse, uti obsides accipere, non dare, consueverint; ejus rei Populum Romanum esse testem. Hoc responso dato, discessit.

Postero die castra ex eo loco movent; idem facit Caesar; equitatumque omnem, ad numerum quatuor milium, quem ex omni Provincia et Aeduis atque eorum sociis coactum habebat, praemittit, qui videant, quas in partes hostes iter faciant.

2. Dum ea conquiruntur et conferuntur, nocte intermissa, circiter hominum milia sex ejus pagi, qui Verbigenis appellatur, sive timore perterriti, ne armis traditis, supplicio afficerentur, sive spe salutis inducti, quod, in tanta multitudine dedititiorum, suam fugam aut occultari, aut omnino ignorari posse existimarent, prima nocte ex castris Helvetiorum egressi, ad Rheum finesque Germanorum contulerunt.

## Grammatical Questions.

(For those only who take Caesar.)

1. Decline, in the plural, *ejus pagi*; and, in the singular, *tanta multitudo* (Passage 2).
2. Give the third person singular of the indicative perfect, and the third person plural of the subjunctive present, of all the verbs in Passage 1.
3. Account for the case of *testem*, *response*, *Timor*, *milium*, *eorum*, *partes* (Passage 1).
4. Write in *oratio recta*:—"Ita Helvetios . . . esse testem" (Passage 1).

## B. VIRGIL.

1. Aeolus haec contra: Tuus, o regina, quid optes, Explorare labor: mihi iussa capessere fas est. Tu mihi quodcumque hoc regni, tu sceptrum lovemque Concillas, tu das cupulis accumbere divom, Nimborumque facis tempestatumque potentem. Haec ubi dicta, cavum conversa cuspide montem Impulit in latus: ac venti velut agmine facto, Qua data porta, ruunt et terras turbine perfant.

2. Obstipuit simul ipse, simul percussus Achaes Lactitiaeque metuque; avidi coniungere dexteras Ardebant, sed res animos incognita turbat. Dissimulant et nube cava speculantur amicti, Quae fortuna viris, classem, quo litore linquant, Quid veniant: cunctis nam lecti navibus ibant Orantes veniam, et templum clamore petebant.

## Grammatical Questions.

(For those only who take Virgil.)

1. Decline, in the singular, *res incognita*; and, in the plural, *cunctis navibus* (Passage 2).
2. Give the third person singular of the indicative perfect, and the third person plural of the subjunctive present, of all the verbs in Passage 1.
3. Account for the case of *haec*, *regina*, *mihi*, *cuspide*, *latus*, *agmine* (Passage 1).
4. Mention two prepositions which govern both the accusative and the ablative, and give sentences in illustration.

## ARITHMETIC.

(Time allowed—from 12.30 P.M. to 2 P.M.)

(The working of these questions, as well as the answers, must be written out in full.)

1. If 81 gallons fill a cistern 4 ft. 4 in. by 2 ft. 8 in. by 1 ft. 1½ in., find the number of cubic inches in a pint.
2. If 32s. 8s. is paid for rent from July 10 to November 22, what should be paid from September 3 to October 23?
3. Simplify  $\frac{0.15 \times 2.1}{0.0035} \times \frac{3\frac{1}{2} - 0.4}{5 - 0.625} \div 63\frac{27}{35}$ .
4. What is the value of 89727 of 2l. 10s.?
5. Into how many pills of 325 milligrammes each can a mass of 23.4 grammes be made?
6. A man spends 65 per cent. of his income, and saves 434l. What is the amount of his income?
7. The difference between the incomes derived from investing a certain sum in 6 per cent. stock at 126 and in 9 per cent. stock at 210 is 22l. 10s. What is the amount invested?

## ENGLISH.

(Time allowed—from 3 P.M. to 4.30 P.M.)

1. Analyse:—  
"The hand that for my father fought,  
I honour as his daughter ought."
2. Parse fully:—*That, for, honour, as, ought.*
3. Write short sentences, using the following words first as adverbs, and secondly as prepositions:—*in, down.*
4. In the following passage supply the necessary capital letters, and put in the stops and inverted commas where necessary:—capital I said as I entered now Mrs Seymour I want to borrow this boy for an hour why she asked because his grandfather is waiting to see him at my house oh then I am coming too she said at once my father shant have Cyril without me I am resolved.
5. Give a short biography of some distinguished soldier or statesman of the present century, or an outline of the reign of one of the Tudor sovereigns. (This must be attempted by every candidate.)

## THE 'PRENTICE.

It is the chemist's apprentice that E. D. H. (8/49) writes about in half-a-dozen verses. These three recall youthful feelings most vividly:—

Who is by coloured globes decoyed,  
And thinks it's pleasure unalloyed  
To be behind them e'er employed?  
The 'prentice.

Who loves to shirk his daily toil,  
And smashes jars of olive oil  
Until his master's blood doth boil?  
The 'prentice.

Who tries experiments galore,  
And makes explosions by the score,  
Which shake the house from roof to floor?  
The 'prentice.



## The Winter Session.

### LIVERPOOL PHARMACEUTICAL STUDENTS' SOCIETY.

THE last general meeting for the present session was held on April 4, the President, Mr. R. H. Mitchell, in the chair.

Mr. WARDLEWORTH exhibited samples of the roots of *Alcorus Calamus* and *Archangelica officinalis*, recently received from Japan. They resemble the European varieties closely, but the former is cut into lengths of about 2 inches, and each piece has been slit longitudinally, while the archangelica-root is limed before shipment.

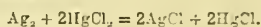
Mr. J. R. BURN read a paper on

#### THE CHEMISTRY OF PHOTOGRAPHY.

The paper was one devised for the education of the members rather than for publication. It was virtually an experiment lecture, as Mr. Burn showed, by means of test-tube experiments, how the application of simple chemical reactions has resulted in the evolution of photography as a distinct art. He traced the history of the art from its earliest beginnings, when man thought of using the light-blackening property of silver salts to image-reproduction, down through the various collodion processes to the present use of gelatine plates. In each section the chemistry of the process was explained by experiments and equations. Speaking of the gelatine-emulsion plate, Mr. Burn described the process of manufacture, and how modifications of the method give rise to slow and rapid films. Incidentally the colour-errors of the plain gelatine-emulsion film were referred to, and the rise of ortho-chromatic plates from the experiments by Dr. Vögel in 1873 was described. Mr. Burn also explained the chemistry of intensification, illustrating his remarks with experiments. Taking a feeble negative he dipped half of it into a solution composed of—

|                                |        |
|--------------------------------|--------|
| Uranium nitrate .. .. .        | 15 gr. |
| Potassium ferricyanide .. .. . | 15 "   |
| Distilled water .. .. .        | 4 oz.  |

The metallic silver of the plate, acting upon the soluble uranium ferricyanide of the solution, changes it into brown uranium ferrocyanide and silver ferrocyanide, and the portion so acted upon becomes highly intensified. Mercuric-chloride solution followed by ammonia is the favourite form of intensification. The reactions in this case are considered to be somewhat as follows:—First, formation of silver chloride and calomel—



Second, the ammonia changes the calomel into mercurous ammonium chloride, and washes away the silver chloride—



The author spoke finally and briefly upon the chemistry of toning silver prints. A discussion followed.

### GLASGOW AND WEST OF SCOTLAND PHARMACEUTICAL ASSOCIATION.

THE annual business meeting of this Association took place on the evening of April 4, Mr. W. L. Currie, President, in the chair.

#### SUGGESTIONS FOR A NEW PHARMACY BILL.

The Committee appointed some time ago to draw up some suggestions for a new Pharmacy Bill reported through the President as follows:—

"1st. That the Pharmacy Acts require amending.

"2nd. That all persons on the register of chemists and druggists be members of the Pharmaceutical Society, and eligible for election to Council in virtue of such registration.

"3rd. That all open shops for the sale of poisons and dispensing of prescriptions be registered.

"4th. That the registration of persons and shops be maintained by annual fees.

"5th. That the term 'person' shall include the individual members of a corporate body.

"6th. That the Preliminary examination be passed before

beginning the period of apprenticeship, and that a curriculum before the qualifying examination be enforced.

"7th. That there be district representation on Council.

"8th. That the Pharmaceutical Society be empowered to exercise control over the conduct of its licensees, even to the removal of names from the register."

Mr. CURRIE remarked that the Committee had unanimously agreed upon recommending that these suggestions be sent to the Council of the Pharmaceutical Society with a view to their incorporation in the first Pharmacy Bill to be presented to Parliament. Several other suggestions were discussed by the Committee, and one in particular was left over for future consideration—that in the case of civil prosecution the assistant prosecuted should not be the individual to pay the fine, but that the fine should be paid by the master.

After some discussion, the Committee's report was agreed to.

#### REVISION OF THE PHARMACOPOEIA.

Mr. LAING submitted a report containing suggestions by a special committee, and it was agreed to send it to the Pharmacopoeia Revision Committee. By a vote of nine to one the introduction of the metric system into the B.P. was disapproved. Several

#### ANNUAL REPORTS

were then submitted. The Treasurer's showed an income of 24l. 2s., and a balance in hand of 35l. 9s. 7d. The Secretary's report stated that the membership is now 144. Referring to the small attendances at some of the meetings, the report stated that the Council were strongly of opinion that earlier closing would enable the Association to have its meetings at an earlier hour in the evening.

#### EARLY-CLOSING.

THE PRESIDENT, in moving approval of the reports, said the hours of labour in Glasgow were simply ruinous to one's benefit. Speaking as an employer, and also from the standpoint of an assistant, he said he could well remember when he had to work till half-past 10 and sometimes till 12 o'clock on a Saturday night. He thought it was a shame that assistants should be kept till that hour at night banging behind a druggist's counter. As an employer, he said there should be much earlier closing of druggists' shops in Glasgow. But there could be no regularity in the matter unless there was compulsion, and legislation was the only thing that would do that. Referring to the clause in the Early-closing Bill relating to chemists, Mr. Currie said there had been considerable discussion as to whether the Bill should receive the support of chemists or not. His own opinion was that it should be supported. A Glasgow gentleman, giving evidence before a House of Commons Committee the other day, was reported to have said that if it were to imperil the Bill in any way he would have the chemists left out from its operation altogether. That was all very well, said Mr. Currie, but he and a good many more in the trade failed to see why chemists should be exempted. He quite agreed that it was a difficult matter to say where a line was to be drawn; and the public must, no doubt, be considered to a certain extent; but he had no hesitation in saying that the public were too well served by chemists. (Hear, hear.) It was stated that chemists might abuse the privilege of having a night-bell; but he was of opinion that some way out of the difficulty could be found. If it came to be a matter of the chemists imperilling this Bill and being left out in the cold altogether, then he thought that the chemists throughout Scotland and England should have a voice in the matter.

The reports were approved.

#### ELECTION OF OFFICE-BEARERS.

The following office-bearers were elected for the ensuing year:—Hon. President, Mr. Daniel Fraser; Hon. Vice-presidents, Mr. John McMillan and Mr. Alexander Kinniburgh; President, Mr. W. L. Currie; Vice-presidents, Mr. John Foster, Mr. J. W. Sutherland, Mr. Thomas Robinson, and Mr. Alexander Laing; General Secretary and Treasurer, Mr. J. A. Russell, 212 New City road; District Secretaries, Mr. Jas. Bruce (South Side), Mr. Geo. Robertson (Partick), Mr. Alex. Miller (North-East), and Mr. A. Livesey (North-West); Librarian, Mr. Thomas Blair; Council, Messrs. Hugh Lambie, James Moir, James Robb, J. W. Miller, Alex.



Boyd, — Maltman, A. McKellar, Robert Brodie, Mungo Wallace, D. S. Robertson, Jas. McNiven, Jas. McMurray, R. T. McCowan, J. Stewart, and Robert Tocher.

With an alteration in the by-laws the business concluded.

## Personalities.

MR. CHRISTOPHER HEATH has been elected President of the Royal College of Surgeons.

MR. D. J. MCKINNON, chemist and druggist, Dundee, has been elected a member of the local Parish Council.

MR. W. MURTON HOLMES, pharmaceutical chemist, has been elected President of the Croydon Microscopical and Natural History Club.

SIR J. RUSSELL REYNOLDS, M.D., who has just been re-elected President of the Royal College of Physicians, is to be the next President of the British Medical Association.

MISS C. C. BEDFORD, daughter of the late Professor Bedford, New York, is coming out as a lecturer. Her lectures will be one of the attractions of the Boston Pharmacy Fair.

MR. J. J. MATTHIAS, pharmaceutical chemist, has been chosen by the Blackheath Justices as one of the Overseers of the Poor for the Parish of Lewisham for the ensuing twelve months.

DR. GEORGE SEATON BUCHANAN, M.D., B.S., B.Sc., London, a son of Sir George Buchanan, M.D., late chief of the Medical Department of the Local Government Board, has been appointed a Medical Inspector of the Board.

A LONG-SERVICE medal, granted to Volunteers of over twenty years' standing, has been conferred on Mr. John Hetherwick, sergeant 2nd Manchester Volunteers. Mr. Hetherwick is one of Messrs. Oldfield, Pattinson & Co.'s representatives.

MAJOR WILEY, of the firm of Wyleys & Co., manufacturing chemists, Coventry, is mentioned as a possible Conservative candidate for the seat of Warwick and Leamington, vacated by the late Speaker. It is said that Major Wiley has expressed himself ready to stand if officially invited by the Council of the Conservative Association.

MR. W. L. HOWIE, of Messrs. Barron, Harveys & Co., found himself in a curious fix when giving his lecture on "The Scottish Alps" at Brixton recently. The London County Council would not allow the lantern with the gas cylinder to be placed among the audience, and the lantern had to be manipulated from the front of the hall, the oxygen cylinder placed outside the building forty feet away, two lengths of steel tubing having to be laid down for the gases. There were other small worries created by officialdom; nevertheless, the lecture went off very well indeed.

## Business Changes.

MR. A. E. AMISS has purchased the Shipdham Drug-stores at Shipdham, Norfolk.

MR. TYRBELL has purchased the branch business of Mr. Bishop at Southampton Street, Camberwell, S.E.

MR. RUGG, chemist, of Crayford, Kent, is opening a chemist's business at 63 White Horse Road, Croydon.

MR. EVANS has purchased the chemist's business of Mr. Frank Woollings at 1 Church Street, Alpha Road, N.W.

THE Britannia Folding Box Company (Limited) (late Parmenter & Co., Limited) have removed to 33 Leonard Street, Finsbury.

DR. GLEESON, of Shepherd's Bush Green, has purchased the chemist's business of Mr. Ingliss at 43 Norland Road, Notting Hill, W.

MESSRS. SANDOZ & Co., perfumers, have removed from Clerkenwell Road to more commodious premises at 22 Eldon Street, E.C., near Broad Street Station.

MR. HALL, chemist, five years manager to Mr. Thomas, of Talbot Road, Bayswater, W., has purchased the chemist's business of Messrs. Parkes & Co., 195 Belsize Road, Kilburn, N.W.

MR. FRANK WOOLLINGS has purchased the business at 21 High Street, Sandown, I.W., which Mr. J. Colenutt has carried on for the past thirty-eight years.

MESSRS. ALFRED J. NATALI & Co., shop-fitters, have removed their offices from Gray's Inn Road to 9 Wilson Street, E.C. The works remain at Haggerston.

MESSRS. DOMPÉ & Co., the Anglo-American Agency of Milan, have become the proprietors of the English Central Pharmacy in Piazza Scala, in the centre of that city.

MESSRS. W. W. ROUCH & Co., pharmaceutical and photographic chemists, have removed from 180 Strand, W.C., to new premises at the entrance to King's College, 161 Strand.

MR. J. H. KNOWLES, trading as Jno. Cross & Co., Pioneer Drug Store, 38 Oxford Street, Reading, has taken his manager, Mr. F. W. Vasey, into partnership. The business will be carried on under the old style of Jno. Cross & Co.

MR. FRANK A. ROGERS, pharmaceutical chemist, has purchased from Messrs. Corbyn Stacey & Co., the business at 327 Oxford Street (corner of New Bond Street), and will henceforth carry it on under his own name. Mr. Rogers has been manager of the business for the past eight years.

MESSRS. BERDOE & Co., of Jewry Street, E.C., inform us that they have acted as agents in the following transfers of pharmacies:—Mr. W. G. Gale, 88 Hoe Street, Walthamstow, sold to Mr. H. Southall; Mr. A. G. Annett, Sonthtown, Great Yarmouth, to Mr. T. L. Drabble; Mr. N. Williams, 26 Dartmouth Road, Forest Hill, to Mr. G. Davies; Mr. W. J. Rugg, High Street, Crayford, Kent, to Mr. E. Ockwell; the business of the late Mr. Watts, St. Mary's Road, Portsmouth, they have sold to Mr. C. H. Osmond; and the late Mr. W. G. Sargent's, at 75 Church Street, Kensington, to Mr. C. T. Back.

## Deaths.

DAY.—On April 7, at 43 Trinity Street, Greenwich, Mr. George Day, late of Blackheath Hill, chemist. Aged 80.

DICKINS.—On March 30, at High Street, Aylesbury, Mr. Rowland Dickins, chemist and druggist, High Street, Aylesbury, aged 79. Mr. Dickins was a native of Leicester, and went to Aylesbury as a doctor's dispenser in 1836. He commenced business on his own account in 1844, and carried it on to the date of his retirement into private life in 1883. The deceased gentleman was for many years a member of the Aylesbury Local Board. He also served on the Burial Board, and was director and chairman of the Aylesbury Gaslight and Coal Company, the Chiltern Hills Water Company, and of several successful building-societies. Mr. Dickins' wife predeceased him, and he leaves no near relations.

FITCH.—On April 5, at the Woodlands, Heigham, Norfolk, Mr. Robert Fitch, chemist and druggist, aged 93. The deceased gentleman was a native of Ipswich, where he served his apprenticeship to his brother, Mr. W. S. Fitch, chemist and druggist, of that town. He came to London for a few years, but returned to Norwich to enter into business with his brother-in-law, Mr. Chambers. Mr. Fitch was for thirty years Honorary Secretary of the Norfolk Archaeological Society, and was an enthusiastic geologist—a valuable collection of specimens, the result of his labours, being now in the possession of the Norwich Museum. He also filled various important offices in the city, and was, in 1867, elected Sheriff. Mr. Fitch was one of the Vice-Presidents of the Pharmaceutical Conference on the occasion of its visit to Norwich in 1868, when Daniel Hanbury filled the President's chair. In the capacity of senior city Magistrate, he formerly took an active share in the business of the Bench. He took part in Corporation affairs, and sat for many years as an Alderman. He was a director of the Norwich Union Life Office, of the Norwich Waterworks Company, and of the Norwich and London Accident Assurance Association. He leaves a son and a daughter.

READ.—On March 26 Mr. Charles Read, chemist and druggist, Liverpool. Aged 50.

WELCH.—On March 29, Mr. John Welch, chemist and druggist, of Kinver, Staffs. Mr. Welch was about fifty years of age and unmarried. He was a member of the Kinver Parish Council.



## Legal Reports.

### IS EXTRA STRENGTH AN ADULTERATION?

AT Clerkenwell Police Court, on April 5, Alfred Honman, chemist, of Upper Street, Islington, appeared in answer to an adjourned summons, taken out by Sanitary-inspector Ward, of the Islington Vestry, for selling diluted acetic acid not of the nature and substance demanded by the purchaser. From the evidence previously given it appeared that the acid was too strong according to the Pharmacopœia; but the Magistrate took time to consider the point of law involved.

Mr. Horace Smith said: "This was a summons under section 7 of the Food and Drugs Act. The purchaser had demanded a compound drug called 'diluted acetic acid.' He obtained acetic acid which was partly diluted, but not so diluted as to be 'diluted acetic acid' as described in the Pharmacopœia. This compound drug was, therefore, 'not composed of ingredients in accordance with the demand of the purchaser.' He received a stronger and more expensive dilution than he demanded. If I did not think myself bound by authority, I should say that the Food and Drugs Act was directed against adulteration, and not against such a mistake as the present. But in a case under section 6 (Knight v. Bowers, 14 Q.B.D., 845), it was held that that section applied to sales of unadulterated articles which, although pure, were wholly different from the article demanded by the purchaser. In that case saffron was sold instead of saffron. It is not stated whether saffron is cheaper or dearer than saffron, so that it would appear that it is immaterial whether the article sold is better or worse, cheaper or dearer, than that demanded. It was said in the judgment of Mr. Justice Mathew that it was a 'wholly different article.' I am not sure whether the word 'wholly' is intended to be material. In the present case, at all events, the article is 'different' from that demanded. I am bound to convict the defendant, though there is no suggestion either of fraud or even gross carelessness, and so far as I can see, it would be well if tradesmen were to emulate the defendant's conduct and give their customers, if possible, a better article than is demanded or paid for. I therefore inflict the nominal fine of 1s., and 2s. costs."

### AGENT OR PURCHASER.

AT Holmfirth County Court, on April 4, Messrs. Williamson & Co., manufacturers of cattle oils, Great Grimshy, sued William Hirst, farmer, of Uppertong, near Holmfirth, for 2l. 10s. in respect of cattle oils alleged to have been sold to him. The plaintiffs' case was that they sent 3l. 4s. worth of cattle oils to the defendant at his request, and he had paid 14s. on account. The defendant stated that he simply acted as agent for the plaintiffs, and after selling goods to the value of 1l. 2s. he deducted 8s. commission, and remitted 14s. to the plaintiffs. As he was unable to sell the remainder of the goods he sent them back, but the plaintiffs refused to take delivery of them. After hearing evidence, the Judge held that the defendant had simply acted as plaintiffs' agent, therefore judgment was given for the defendant, with costs.

### NO MARKET MEDICINE MEN IN BOSTON.

AT the Boston (Lincs) Police Court, on April 5, Charles S. Senate, patent-medicine vendor, of Nottigham, was charged at the instance of Mr. Blaydon, the deputy-clerk of the market, for having sold pills and recipes by the system of "pitching" in the market, contrary to the bye-laws, on February 13 last. The defendant did not appear, and Superintendent Wyse stated that he had received a telegram that morning from the chief constable at Nottingham asking, on behalf of the defendant, that the case might be adjourned for a fortnight. The Bench, however, decided to hear the case. After Sergeant Barton had proved service of the summons, Mr. Blaydon stated that on February 13 he saw the defendant standing in the market, in front of the Peacock and Royal Hotel, selling pills and recipes. He was making a speech, and had caused a large crowd to assemble,

causing an obstruction to the thoroughfare. Witness asked defendant to move on, but he declined to do so. Henry Joyce, florist, said that owing to the defendant's conduct, and the obstruction he caused, he was unable to transact any business at his stall. After Sergeant Sparrow had given evidence as to the obstruction, the Bench decided to inflict a penalty of 2l., and 12s. 6d. costs, or, in default, fourteen days' imprisonment with hard labour.

### YORKSHIRE RELISH: THE RIGHT TO THE TITLE.

SOME more evidence in the case of Powell v. The Birmingham Vinegar Brewery Company, the beginning of which action was reported last week, was taken on April 5, after which the further hearing was adjourned till after the Easter vacation.

### DEFICIENT SEIDLITZ POWDERS.

THE case against Mrs. Postlethwaite, grocer, for the sale of deficient seidlitz powders, was further heard last week at Todmorden Petty Sessions. At the previous hearing the solicitor for the defence stated that he had a complete answer to the charge on a point of law and on a warranty, and the Magistrates adjourned the case for the inspector who prosecuted to obtain legal assistance. The solicitor for the prosecution now stated that a dozen powders were bought from the defendant. The contents of the blue papers varied in weight from 114 to 189 gr., or an average of 166, instead of 160 required by the B.P. For the defence it was contended that the analyst ought not to have received four of the powders, but a third part of the whole. This contention was, however, overruled, whereupon the defence submitted that the B.P. was not binding. The prosecution urged that, though not incorporated with the Act, the B.P. is recognised. Both parties argued at considerable length as to whether a printed label on an article, and the settled invoice, are a warranty; but the Bench, having considered the whole matter privately, decided to impose a fine of 5s., the prosecution agreeing to forego costs, saving analyst's and court fees.

## Bankruptcies and Failures.

*Re* WM. BOYD & Co., Fife Chemical-works, Thornton, N.B.

THOMSON McLINTOCK, chartered accountant, Glasgow, has been elected trustee, and Andrew Jackson Kirkpatrick, merchant, West George Street, Glasgow, Wm. Laidlaw, banker, Glasgow, and Joseph Thomson, ironmonger, Kirkcaldy, have been elected commissioners on the sequestrated estates of these debtors and of Wm. Boyd and John S. Mackintosh, the individual partners of the firm.

William Boyd and John Semple McIntosh, the said partners, were examined in bankruptcy at Kirkcaldy on Friday last. Mr. Boyd, in answer to questions, said he took the Fife Chemical-works in 1890, his partner at that time being a Mr. Millar. Each put into the business about 2,000l. He purchased the property, and spent a good deal of money in adapting the premises and introducing machinery for their manufactures. By the end of 1890 he had put out about 3,000l. on the works in addition to the purchase-money. They produced sulphuric acid. At first the business was successful. About the end of 1892 they introduced new machinery and otherwise improved the place at a cost of 1,500l. to adopt a new kind of manufacture. In order to pay for that he had put in 1,100l. as additional capital, which he had borrowed from friends. Mr. Millar retired from the firm in 1893. At that time he took into partnership Mr. McIntosh, and Mr. Millar was paid out. He was under the idea that the business was paying. The first disaster was the stoppage of the Burntisland Oil-works. That company alone took one-half of their production of vitriol. The coal strike had also occasioned them considerable loss. Mr. McIntosh corroborated Mr. Boyd's statement. His lordship administered the statutory oath. The state of affairs shows the firm's liabilities to be 4,723l. 14s. 6d., and the assets 3,103l. 9s. 10d., showing a deficiency of 1,620l.



**Re ALFRED PARSONS, Tenterden, Cattle-spice Manufacturer.**

THE public examination of this debtor was held at the Hastings Bankruptcy Court, on April 1, before the Registrar. The statement of affairs filed by the debtor disclosed liabilities amounting to 708*l.* 17*s.*, and the assets were estimated to produce 153*l.* 17*s.* 6*d.* The debtor, in reply to questions put by the Official Receiver, said he commenced his career in the shop of a country chemist. He then bought some land for 275*l.*, of which sum he raised 200*l.* on mortgage. He then took to manufacturing cattle-spice. The examination was finally ordered to be closed.

**Re J. FENWICK ALLEN, Widnes, Metallurgical Chemist.**

THE public examination of this debtor took place at the Liverpool Bankruptcy Court on April 4. His liabilities amount to 2,357*l.*, and there are no assets. The debtor stated that his liabilities were chiefly on speculations in stocks and shares, and were incurred some years ago, chiefly with Sutton & Co., brokers, London. It appeared that the petitioning creditor is the trustee of the estate of Sutton & Co., and that he obtained the receiving order on a judgment obtained by him as trustee for Sutton & Co.'s estate without disclosing that fact. The Registrar said that if that were the case, these proceedings were out of order, and should be set aside. The examination was adjourned for inquiry.

**Re T. L. MORGAN, Llandovery, Chemist and Druggist, &c.**

THIS bankrupt, who carried on business as a chemist and druggist, at the Medical Hall, Llandovery, and who resided at Llwynwormwood Park, near that town, underwent his public examination at the Carmarthen Bankruptcy Court, on April 3, before Mr. Registrar Thomas Parkinson.

Debtor said he commenced business as a chemist and druggist in 1853, with a borrowed capital of 200*l.* For the last twelve years he had been a partner in a firm of aerated-water manufacturers at Carmarthen. Between the years 1875 and 1877 he had a capital of from 3,000*l.* to 4,000*l.* That sum was, however, reduced through a bad investment which he made in connection with a limited liability sheep-dipping company between 1877 and 1879. He lost nearly the whole of his money through that concern, and at the end of 1887 all his ready money was gone. As far as he knew he was solvent in 1890. He had been involved in a lawsuit in connection with the sheep-dipping company. The losses he incurred were due to the damages he had to pay when that company got into difficulties. He took that course in order to save the 500*l.* he had in that concern. The lawsuit, however, was "spun out," until he lost all his available capital. To that he almost entirely attributed his present position. In 1878 he took Llwynwormwood Hall, the rent then being 360*l.* per annum. It was afterwards reduced to 100*l.* He considered that when he took it his income justified such a rental. Besides, he took it mainly as a sheep-farm. He used to let it out as a residence to others. He had lost between 2,000*l.* and 3,000*l.* in connection with Llwynwormwood, and between 15,000*l.* and 16,000*l.* in connection with the mineral-waters factory. In answer to further questions, debtor said in 1888 he found that things were getting very "tight," but he had not the faintest idea that he could not pay everybody, and if times had only mended, he would have been able to meet all his creditors this year.

The Official Receiver: How did you hope to pay all you owe? You knew of the badness of trade, and so on?

Witness: I had hoped that the times would mend. I cannot say that I even realised that I was insolvent until the Sheriff's officer was in the house. That is, indeed, honest truth.

The Official Receiver: But surely a man with a deficiency of 6,000*l.* must have known of his deficiency years ago?

Witness: I had more than 5,000*l.* of my own at one time.

The Official Receiver: Yes; but you knew that you had lost it?

Witness: Yes; but I did not know that things had dropped to such a poor value as they apparently have.

Debtor having stated that no one could make out a statement of his liabilities and assets from his books, an adjournment of the case was ordered, the Official Receiver stating that a trustee must be appointed.

**Re HERBERT LOVELY, Windsor Road, Ealing, ex-Newspaper Proprietor and Chemist.**

THE public examination of this debtor took place at Brentford on April 2, before Mr. Registrar Bristow.

The bankrupt's statement of affairs showed liabilities of 1,682*l.* 13*s.* 4*d.*, and assets estimated at 126*l.* 12*s.* Under examination, Mr. Lovely said the assets were book debts, which he believed could be realised. Previously to 1891 he carried on business as a chemist at the Mall, Ealing. In August of that year he obtained a ten years' lease of the *West Middlesex Standard*, and the premises and plant of the West Middlesex Printing and Publishing Company. He had then had no experience of newspaper management, but he had written articles for newspapers since his youth. He agreed to pay 400*l.* a year rent, and for the first eighteen months the rent was paid regularly. Since then the payments had been made erratically, and about three months ago the company ejected him, the rent being 254*l.* in arrear. He was not now carrying on any business. He had kept account books, but they were in the company's possession. The newspaper had always run at a loss. He had a capital of about 950*l.* when he leased the paper, and he had sold reversionary interests of the value of 3,500*l.* for 1,900*l.* Altogether he had sunk about 3,000*l.* in the business in the hope of making it a success. The rest of the examination had reference to the financial transactions of the debtor in connection with the paper, and was ultimately adjourned.

## Gazette.

### PARTNERSHIPS DISSOLVED.

Chapman, W., and Harrison, J., physicians and surgeons, Garstang, Lancashire, under the style of Chapman & Harrison.

Elsom, F. J., and Whiteside, J. H., under the style of Elsom & Whiteside, Whitwell, Derbyshire, general medical practitioners.

Ewbank, F., and Ackery, J., under the style of Ewbank & Ackery, dental surgeons, Queen Anne Street, Cavendish Square, W.

Howell, H. S., and De Jersey, W. B., physicians, surgeons, and general medical practitioners, Boundary Road, South Hampstead, N.W., under the style of Howard & De Jersey.

Kellett, H., and Kellett, W., chemists and druggists, Salford, under the style of Henry Kellett.

Spicer, H., Spicer, E., and Spicer, A., photographic material manufacturers, Surrey Row, Blackfriars, S.E., under the style of the Blackfriars Photographic and Sensitising Co.

Wolff, G. G., and Williams, H. C., ink, gum, and stain manufacturers, Acton Street, Haggerston, and Chapel Street, Islington, N., under the style of G. G. Wolff & Co.

Woolley, G. S., Woolley, H., Johnstone, C. A., and Woolley, E. J., Manchester and Salford, manufacturing and pharmaceutical chemists and wholesale druggists, under the style of James Woolley, Sons & Co., and retail druggists under the style of James Woolley.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### RECEIVING ORDERS.

Baylass, William Dale, trading as the Baylass Drug Company (Limited), Torquay, chemist and druggist.

Estabrook, Charles Eugene, Huddersfield and Halifax, dentist.

Phillips, Herbert, Wellington, aerated-water manufacturer.

*The following Amended Notice is substituted for that published in the "London Gazette" of March 26, 1895:—*

Dorward, David Kirkcaldy, Darlington, late Willington, aerated-water manufacturer.

#### ADJUDICATION.

Clegg, John Hague, Stockton-on-Tees, surgeon.

Dorward, David Kirkcaldy, Darlington, late Willington, aerated-water manufacturer.

#### SCOTCH BANKRUPTS.

Boyd, William, & Co., chemical-manufacturers, Fife Chemical-works, Thornton, and William Boyd and John Semple Mackintosh, chemical-manufacturers there, the individual partners of said firm, as such partners, and as individuals—to be examined in the Sheriff Court House, Kirkcaldy, April 5, at 11 o'clock.



## New Companies and Company News.

**BRITISH SANITARY SOAP COMPANY (LIMITED).**—Capital 2,000*l.*, in 1*l.* shares (1,000 6*l.* per cent. cumulative preference). Objects: To manufacture, sell and deal in soap for domestic and other purposes, chemicals, disinfectants, polishing-pastes, and powders for all purposes, and sanitary appliances of every description. The first subscribers (each with five ordinary shares) are:—E. A. Atkins, 7 Wentworth Street, Liverpool, science lecturer; H. H. Field, 77 The Woodland, Birkenhead, gentleman; W. Stark, Toronto, Newsham Park, Liverpool, manager; A. P. Garland, 4 Grinfield Terrace, Oxford Street East, Liverpool, works manager; R. Symons, Castle Fields, Bridgewater, gentleman; Mrs. W. Stark, 79 Newsham Drive, Liverpool; Mrs. W. G. Silke, Tannton Road, Bridgewater. The first directors (to number five) are to be appointed by the subscribers. Qualification, 20*l.* Registered office, 141 Vauxhall Road, Liverpool.

**DAVIES & EVANS (LIMITED).**—Capital 100,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with John Brilmayer, and to carry on the business of oil, colour, and Italian-warehouse men, wine, spirit and beer merchants, aerated and mineral-water manufacturers, dealers in and manufacturers of provisions, tobacco, patent medicines, disinfectants, &c. The first subscribers (who take one share each) are:—E. H. Jupp; R. W. Regge, 7 St. Mildred's Court, E.C., solicitor; F. Copland, 55 Foxberry Road, Brockley, accountant; R. N. Sherwood, 51 Finchley Road, Kennington Park, S.E., clerk; S. B. Gow, 26 Bonndary Lane, Camberwell, S.E., clerk; C. G. W. Wingate, 40 Iverson Road, Brondesbury, N.W., clerk; W. Evans, 11 Tollington Place, N., clerk. The first directors (to number not less than two nor more than seven) are to be appointed by the subscribers. Qualification—of the first, 250*l.*; of future, 1,000*l.* Remuneration—chairman, 400*l.* per annum; of others, 200*l.* each.

**CORDEUX RHYS & SALMON (LIMITED).**—Capital 5,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with Frederick Cordoux-Rhys and Thomas Markham for the purchase of the business carried on by F. Cordoux-Rhys & Co., at Lansdowne Works, Lansdowne Road, Tottenham, N., and to manufacture and deal in confectionery, mineral waters, cordials, sugars, fruits, spices, &c. The first subscribers (who each take one share) are:—A. H. Dell, 50 Globe Road, E., clerk; H. J. Brown, 5 Weighton Road, Anerley, clerk; H. Choveaux, 15 Gainsford Road, Bow, clerk; L. Heath, 3 Fairholt Villas, Woodford, clerk; A. James, 26 Swinton Street, W.C., clerk; E. T. Burt, 3 Sotheby Road, Highbury Park, estate agent; W. C. Frayne, Florence House, Hillmorton Road, N., estate agent. The first directors (to number not less than three nor more than five) are James Salmon, Frederick Cordoux-Rhys, George C. Pascal, Francis R. Mortimer, and Thomas J. Woodrow. Remuneration, 105*l.* per annum, divisible.

**KIMMERIDGE OIL AND CARBON COMPANY (LIMITED).**—The final meeting of the members of this concern has been called for May 11, at Winchester House, Old Broad Street, E.C., when the liquidator will present his accounts of the winding-up. The company was registered on December 12, 1882, and now has a capital of 200,000*l.*, in 10*l.* shares. The objects were to lease certain lands at Kimmeridge, in the Isle of Purbeck, in the county of Dorset, and to carry on the business of mineral oil manufacturers, distillers, and refiners, coke, carbon, and alum manufacturers, manure-manufacturers, chemical-merchants, &c. At the time of the last return, 8,140 shares were taken up, and the full amount called; 81,341*l.* 10*s.* has been paid, leaving 58*l.* 10*s.* in arrears. The resolution for voluntary liquidation was passed on December 21, 1893 when Robert Warner, of 300 Winchester House, was appointed liquidator.

**OPIMUM** is not a poison, and its production in India must not be restricted—so the Royal Commission on opium have concluded. How clever of them!

## Trade-Marks Applied for.

ANY person who has good grounds of objection to the registration of any of the following marks should at once communicate with Sir Reader Lusk, Comptroller-General, at the Patent Office, 25 Southampton Buildings Chancery Lane, London, W.C.

(From the "Trade Marks Journal," March 27, 1895.)

"THE CLEANSING DRENCH," and name, description, and address of applicants; for chemical substances used in veterinary and sanitary purposes. By Corbyn, Stacey & Co., 300 High Holborn, London. 183,701.

CONF. OPII, and name, description, and address of applicants; for chemical substances used in medicine and pharmacy. By Corbyn, Stacey & Co., 300 High Holborn, London. 183,702.

"TOMPO," for remedy for expelling moths from clothes. By Ann L. Panter, 42 Langham Road, West Green, Middlesex. 185,398

"COCA-TONIC-CHAMPAGNE," applicant's signature and address; for coca-tonic champagne—a medicated wine. By Laurent-Perrier & Cie., 106 Fenchurch Street, London. The essential particular is the signature. 184,147.

(From the "Trade Marks Journal," April 3, 1895.)

Signature of applicant; for medicinal ointment. By Robert Liddiard, 8 Marco Road, Hammersmith, W. 186,093.

"VENCA"; for a toilet hair-preserver and producer. By William George Whyte, 64 Elm Row, Edinburgh. 185,855.

## Odious Liquor Iodi.

MR WILLIAM FELTON, chemist and druggist, of 253 Ball's Pond Road, Islington, was on Wednesday summoned before Mr. Marsham at the North London Police Court, for selling liquor iodi which was not of the nature and substance demanded by the purchaser. Mr. Hoare prosecuted for the Vestry, and Mr. C. V. Young defended. It appeared that the medical officer of Islington (Dr. Harris) sent out an inspector (Chas. Lawrence) to purchase a sample of liquor iodi, and the result of the analysis showed this to contain—Of iodine 4.24 parts in 100 fluid parts, and of potassium iodide 4.68 parts in 100 fluid parts, which was, therefore, not according to the British Pharmacopoeia. The certificate was that of Dr. Frank L. Teed, public analyst of Islington, and the summons taken out under the Sale of Food and Drugs Acts. The prescription which was sent by the Medical Officer was:—"R. Liq. iodi, ʒvj. Sig.: The solution to be applied with a brush to the affected part twice each day.—A. E. H. 14/3/95." Mr. Young said the defendant would plead guilty to the allegation, but he had a good defence to it. This particular drug was a very uncommon preparation and hardly ever used, the liniment and the tincture being used. The preparation was very volatile, and liable to deteriorate. Defendant had had his liquor in stock for some time. The inspector asked for 6 oz., and there only happened to be 4½ oz. in the 8-oz. stock-bottle. Consequently he made up the quantity with the liniment, and that would not have been done if the inspector had not said he could not wait. Defendant was a most respectable chemist, had been in business eight years, and came from an eminent firm. He suggested that if defendant paid the costs of the summons it would meet the offence. Mr. Hoare: I shall leave it entirely to the Magistrate. The inspector, however, did not get what he asked for as laid down in the British Pharmacopoeia. Mr. Marsham: Two drugs are mentioned in the summons. Mr. Young: The two are added together, and if one deteriorates so does the other. I will call the defendant, who is a practical chemist. Mr. Felton then gave evidence, in the course of which he said he did not pretend to justify himself; he was thunderstruck when he saw the analysis. The Magistrate imposed a fine of 20*s.*, and 12*s.* 6*d.* costs.



## Counter Practice.

RECIPES CONTRIBUTED BY SUBSCRIBERS IN COMPETITION,  
AND COMMENTED UPON BY A MEDICAL PRACTITIONER :  
WITH TYPICAL PRESCRIPTIONS IN EACH GROUP.

### DYSPEPSIA.

Sod. bicarb. . . . . gr. 80  
Inf. gent. co. conc. . . . . ʒi.  
Aq. menth. pip. ad . . . . . ʒviij.

M.

ʒth ter die at 11, 3, and 7. (128)

Sodii bicarb. . . . . ʒi.  
Tr. gent. co. . . . . ʒiv.  
Spt. chloroformi . . . . . ʒiij.  
Aque ad . . . . . ʒviij.

Signe : ʒss. ter die post cib. hor. i. (209)

Sp. ammon. ar. . . . . ʒxv.  
Tinct. chloroformi co. . . . . ʒxv.  
" gentiane co. . . . . ʒxv.  
" nucis vom. . . . . ʒx.  
Syrupi zingiberis . . . . . ʒi.  
Aque ad . . . . . ʒi.

M. Ft. haust.

Ter die sum. ante cibos. (121)

Tr. zingib. . . . . ʒiv.  
Sod. bicarb. . . . . ʒiv.  
Tr. nuc. vom. . . . . ʒxl.  
Syrup. . . . . ʒss.  
Aq. menth. pip. ad . . . . . ʒxij.

ʒi. bis vel ter die post cibos. (35)

### STOMACHIC AND MILD APERIENT.

Magnes. sulph. . . . . ʒss.  
Pulv. rhci . . . . . ʒiij.  
Magnes. carb. . . . . ʒiv.  
Æther chlor. . . . . ʒi.  
Spt. ammon. co. . . . . ʒss.  
Tr. rhei co. . . . . ʒi.  
Tr. zingib. . . . . ʒiij.  
Aque menth. pip. ad . . . . . ʒviij.

M. Ft.

Capt. ʒss. ex aqua ter die. (137)

Magnes. sulph. . . . . ʒss.  
Potass. bicarb. . . . . ʒss.  
Tinct. capsici . . . . . ʒxlv.  
Tinct. nucis vom. . . . . ʒi.  
Spt. chlorof. . . . . ʒi.  
Infus. gent. co. ad . . . . . ʒviij.

½ part. ter die ante cibos. (229)

Magnes. sulph. . . . . ʒiv.  
Magnes. carb. . . . . ʒi.  
Sodæ carb. . . . . ʒss.  
Tinct. chlorof. co. . . . . ʒss.  
Aq. menth. pip. . . . . ʒiij.  
Aque ad . . . . . ʒviij.

M.

One-eighth part ter die 11, 4, and bedtime. (222)

Mag. carb. p. . . . . ʒi.  
Mag. sulph. . . . . ʒi.  
Amm. carb. . . . . ʒi.  
Tr. nucis vom. . . . . ʒi.  
Aq. chloroformi ad . . . . . ʒviij.

ʒss. quartis horis. (63)

Sodii bicarb. . . . . ʒi.  
Magnes. sulph. . . . . ʒss.  
Tr. nuc. vom. . . . . ʒss.  
Inf. gent. co. conc. . . . . ʒiij.  
Syrup. . . . . ʒiij.  
Aq. chlor. . . . . ʒiij.  
Aque ad . . . . . ʒviij.

M. Ft. mist.

ʒss. ter die ante cib. (23)

*Mag. sulph. I regard as the least desirable of aperients, unless given for its immediate effects in the form of a draught.*

Bismuth. carb. . . . . ʒi. ʒiij.  
Sodæ bicarb. . . . . ʒi. ʒiij.  
Tr. chlor. et morph. . . . . ʒi.  
Pulv. rhei . . . . . gr. xxxij.  
Pulv. zingib. opt. . . . . gr. xxxij.  
Aq. ad . . . . . ʒviij.

F. mist.

Sumat ʒj. ter die 1 hora post cibum. (60)

Sodii bicarb. . . . . ʒi.  
Pepsin porci. . . . . ʒss.  
Spt. ammon. co. . . . . ʒss.  
Liq. bismuthi . . . . . ʒiij.  
Chlorodyni . . . . . ʒxxiv.  
Inf. gent. co. ad . . . . . ʒviij.

M. Ft. mist.

Cap. ʒss. ter die ante cibum. (213)

Pepsin solubilis . . . . . ʒss.  
Liq. bismuthi . . . . . ʒiv.  
Exx. opii liq. . . . . ʒxxiv.  
Acid. hydrocy. dil. . . . . ʒxij.  
Tr. card. co. . . . . ʒss.  
Sp. chlorof. . . . . ʒi.  
Aq. ad . . . . . ʒviij.

M. Ft. mist.

Signe : ʒss. post cibos semihora. (221)

Bismuth. carb. . . . . gr. 80  
Magn. carb. . . . . gr. 80  
P. tragac. co. . . . . ʒi.  
Sp. ætheris . . . . . ʒiij.  
Tr. nucis vom. . . . . ʒi.  
Liq. morph. hyd. . . . . ʒi24  
Aque ad . . . . . ʒviij.

M.

ʒj. ter die ante cibos. (152)

Liq. bismuth. . . . . ʒiv.  
Bin. pepsin. . . . . ʒi.  
Tr. zingib. fort. . . . . ʒi80  
Tr. card. co. . . . . ʒiv.  
Chlorodyni . . . . . ʒi40  
Aq. menth. pip. ad . . . . . ʒviij.

M. Ft. mist. et sig.

ʒj. ter in die post. cib. (57)

Bism. carb. . . . . ʒiij.  
Mag. carb. . . . . ʒi.  
P. trag. co. . . . . ʒiij.  
Vin. opii . . . . . ʒi.  
Aq. chlorof. . . . . ʒiv.  
Aq. menth. pip. ad . . . . . ʒviij.

Cap. ʒi. ter in die post cibos. (92)

Potass. bicarb. . . . . gr. x.  
Liq. bism. et ammon. cit. . . . . ʒss.  
Spt. ammon. arom. . . . . ʒi15  
Tinct. chlorof. et morph. . . . . ʒi8  
Inf. gentian. ad . . . . . ʒi.

M.

Three times a day before meals. (7)

Potass. bicarb. . . . . gr. 160  
Liq. bismuthi . . . . . ʒi.  
Pepsin liquid. (Schacht) . . . . . ʒi.  
Nepenthe . . . . . ʒi80  
Inf. gentian. co. ad . . . . . ʒviij.

Signe : ʒss. ex aq. ter in die p.c. (173)

Sodæ bicarb. . . . . ʒiij.  
Liq. bism. am. cit. . . . . ʒi.  
Chlorodyni . . . . . ʒss.  
Tinct. nucis vom. . . . . ʒss.  
Tinct. rhei . . . . . ʒss.  
Aq. menth. pip. ad . . . . . ʒviij.

M.

ʒss. ter die sc. post cibos.

Pil. colic. c. hyoscy. . . . . gr. vi.  
Pil. hydrarg. . . . . gr. iij.

In pil. ij. b.s.s. (230)

*These formulæ contain opium, and would be indicated in cases where the bowels are relaxed or where there is marked colicky pain.*

### ACID MIXTURES FOR DYSPEPSIA.

*The following is a good formula (ex "Medical Reprints") :—*

Acid. nitro-mur dil. . . . . ʒiij.  
Tinct. calumb. . . . . ʒvj.  
Pulv. rhei . . . . . ʒss.  
Lactopeptin . . . . . ʒiij.  
Spt. chlorof. . . . . ʒiij.  
Aque . . . . . ʒviij.

ʒj. t.d.s. before food.

*Acid mixtures are often more lasting in their action in cases of dyspepsia provided they agree. Mineral acids diminish the formation of vegetable acids in the stomach, and are, therefore, indicated in cases of acidity, gouty dyspepsia, and the dyspeptic weakness of old people whose gastric juice is feeble in digesting-power and lacking in hydrochloric acid.*

Ex. rham. pursb. . . . . ʒi.  
Ac. nit. hydro. dil. . . . . ʒv.  
Syr. zingib. . . . . ʒi.  
Inf. gent. ad . . . . . ʒviij.

M.

Signe : ʒij. in aq. p.c. (61)

Pepsin. porci. . . . . gr. xxxvj.  
Glycerini . . . . . ʒiv.  
Tr. nucis vom. . . . . ʒi.  
Acid. hydroch. dil. . . . . ʒiij.  
Tr. capsici . . . . . ʒxij.  
Inf. senne co. conc. 1-7 . . . . . ʒiij.  
Tr. card. co. . . . . ʒiij.  
Inf. gent. co. ad . . . . . ʒviij.

M. Ft. mist.

Signe : ʒss. ex aq. 5 minutes a.c. (13)

Aq. nit. byd. dil. . . . . ʒiij.  
Tr. nuc. vom. . . . . ʒi.  
Tr. capsici . . . . . ʒi48  
Syr. aurant. . . . . ʒi.  
Aq. m. p. ad . . . . . ʒviij.

ʒss. t.d.s. p.c. ex aq.

Acidi nitromur. dil. . . . . ʒiij.  
Spt. chloroformi . . . . . ʒiij.  
Inf. gent. co. ad . . . . . ʒviij.

M.

Signe : ʒss. ter in die semihora ante cibos ex aque. (83)

Acid. hydroch. dil. . . . . ʒiij.  
Tinct. capsici . . . . . ʒi.  
Pepsin. fluid. . . . . ʒi.  
Succ. tarax. . . . . ʒi.  
Inf. gent. co. ad . . . . . ʒviij.

M.

Signe : ʒss. ter die after food. (67)

Pepsin (B.P.) . . . . . ʒss.  
Acid. nitro-hydrochlor. dil. . . . . ʒss.  
Tr. nucis vom. . . . . ʒi.  
Infus. gent. co. ad . . . . . ʒviij.

Ft. mist.

ʒj. ter in die ante cibos. (12)

Ac. nit. mur. dil. . . . . ʒiij.  
Liq. strychninae . . . . . ʒi48  
Tr. card. co. . . . . ʒiv.  
Glyc. pepsin (Armour) . . . . . ʒiij.  
Glycer. . . . . ʒviij.  
Aque ad . . . . . ʒviij.

M.

ʒss. t.d.s. p.c. ex aq. (174)

Res. podoph. . . . . gr. viij  
Glycerol. pepsini (Armour) . . . . . ʒiij.  
Ac. uit. mur. dil. . . . . ʒss.  
Tinct. zingib. . . . . ʒss.  
Aq. cinnam. ad . . . . . ʒviij.

M. Ft. mist.

Signe : ʒss. ter in die. (189)

Acidi uitro-hydrochlorici diluti . . . . . ʒiij.  
Ætheris chlorici . . . . . ʒiij.  
Glycerini acidi pepsini . . . . . ʒss.  
Inf. gentiane co. . . . . ʒviij.

M.

Signe : A tablespoonful in half a wineglassful of water three times a day, half an hour before meals. (86)

Acidi hydrochlorici diluti. . . . . ʒx.  
Tincturæ aurantii . . . . . ʒxv.  
Pepsin . . . . . gr. v  
Ext. Byini fluid . . . . . ʒi.  
Aque q.s. ad . . . . . ʒi.

M. Fiat mistura.

Cap. ʒj. ter in die post cibos cum carbonis una tabella gr. v. post prandium. (177)

Pepsin solubilis = to 48 gr. B.P.  
Acid. mur. dil. . . . . ʒiij.  
Liq. strychninae . . . . . ʒi.  
Quin. sulph. . . . . gr. viij.  
Infus. quass. conc. . . . . ʒviij.  
Aq. chlorof. ad . . . . . ʒviij.

Signe : ʒss. ex aq. t.d.s. p.c.

(Note : Ess. m. pip. or chlorodyne can be added q.s. if required.) (126)

Quininae hydrochlor. . . . . gr. xvij.  
Acid. hyd. chlor. dil. . . . . ʒi.  
Glycerin. pepsin. . . . . ʒiij.  
Tr. nuc. vom. . . . . ʒiij.  
Tr. strophanthi . . . . . ʒi.  
Aque ad . . . . . ʒviij.

M. Ft.

Cap. ʒss. ex aqua ter die post cibum. (137)

Acid. nit. hydrochl. dil. . . . . ʒss.  
Vin. pepsin . . . . . ʒi.  
Succ. tarax. . . . . ʒiv.  
Inf. quassia conc. . . . . ʒi.  
Aq. chlorof. ad . . . . . ʒviij.

Ft. mist.

ʒj. ter die inter cibos.

Pil. aloin co. no. vj.

ij. altera omnis nocte.

Liq. pancreat. (Benger's) . . . . . ʒiij.  
Sodæ bicarb. (Howard's) . . . . . ʒss.  
Aq. bullientis ad . . . . . ʒviij.

Signe : ʒss. after every meal (142)

*A very excellent combination in cases of the deficient power of digesting fats.*

Pepsin. porci. . . . . gr. xxxvj.  
Ext. nuc. vomice . . . . . gr. iij.

M. Ft. pil. iij.

One pill every day with dinner. (217)

*For feeble action of the gastric juices this pill would be good.*



GOLD MEDALS 1884-1885-1886-1888.

# "SANITAS" DISINFECTANTS

TRADE  
MARK.

"SANITAS" EUCALYPTUS PREPARATIONS.

Kingzett's Sulphur Candles and Sulphugators,  
Preserved Peroxide of Hydrogen.

Mercuric Bactericide, Eucalyptus Oils.

L. G. B. Corrosive Sublimate Pellets; "Creoside" Fluids and Powders;  
Carbolic Fluids, Powders and Soaps; Soluble Carbolated Creosote; Weel  
Destroyer, Sheep Dips, &c.

THE SANITAS CO., LIM., Bethnal Green, LONDON, E.

# ELLIS'S TABLE WATERS

"Absolutely Pure."—  
A. URR, M.D., F.R.S.,  
L. THOMPSON, M.R.S.,  
Analytical Chemists.

"The water is of first-class  
organic purity, and the  
quality of the gas is excel-  
lent."—J. ALFRED WANKLYN,  
M.R.C.S., Prof. of Chem.

SOLE ADDRESS—

[2]

R. ELLIS & SON, RUTHIN, NORTH WALES.  
London Agents: W. BEST & SONS, Henrietta Street, Cavendish Square

## MUMFORD'S

FARRINGTON ROAD, LONDON, E.C.

THE BEST THAT CAN BE PRODUCED.

|                                          |     |                                                                       |
|------------------------------------------|-----|-----------------------------------------------------------------------|
| PURE<br>CRUSHED LINSEED                  | 18/ | 1 cwt. carriage paid; or 7, 14, *<br>28, & 56 lbs. free on rail Lond. |
| BEST<br>CLEANED LINSEED<br>(For Tea)     | 17/ | 1 cwt. carriage paid; or 7, 14, *<br>28, & 56 lbs. free on rail Lond. |
| PURE<br>STARCH POWDER                    | 23/ | 1 cwt. carriage paid; or 7, 14, *<br>28, & 56 lbs. free on rail Lond. |
| PURE<br>FULLER'S EARTH<br>(Light Colour) | 16/ | 1 cwt. carriage paid; or 7, 14, *<br>28, & 56 lbs. free on rail Lond. |
| PURE<br>FULLER'S EARTH<br>(Fine)         | 14/ | 1 cwt. carriage paid; or 7, 14, *<br>28, & 56 lbs. free on rail Lond. |

\* CARRIAGE PAID to Railway Stations within 200 miles of  
London (or allowance made for distances beyond) on a total weight  
of 112 lbs. and upwards of above articles.

## Scott's Emulsion.

### The Cream of Cod Liver Oil

WITH

Hypophosphites of Lime &amp; Soda,

Has been accepted and prescribed by physicians in **all**  
**parts of the World** for the past twenty  
years, and considered by them **the** preparation of

### COD LIVER OIL PAR EXCELLENCE.

SCOTT &amp; BOWNE, Ltd.,

47 Farringdon Street, E.C.



Another Success

For **IDRIS** TABLE WATERS.

IDRIS & CO. have obtained the  
**ONLY GOLD MEDAL**  
Awarded to MINERAL WATER MANUFACTURERS OF GREAT  
BRITAIN at the

ANTWERP EXHIBITION.

FIVE other GOLD MEDALS awarded at recent Exhibitions.

All Chemists should sell these well-known Waters, which  
command the largest sale.

IDRIS & Co., LD., PRATT ST., CAMDEN TOWN



## MELLIN'S

THE  
BEST  
**FOOD**

FOR INFANTS & INVALIDS.

### ITROSYL

Never loses strength, never evaporates. Is equally  
unaffected by the hottest climate of the tropics  
and by the temperature of the frigid zone.

Fletcher, Fletcher & Co., Holloway, London.

### THE DENTAL PROFESSION.

LAST week we mentioned that there are 4,874 registered  
dentists in the United Kingdom, but there are in addition  
27 "foreign dentists," comprising dental doctors who  
have graduated at Harvard and Michigan. This group has



temporarily been barred from increase in consequence of the imperfect provision for classical knowledge made by these Universities in their dental curricula, although the imputation of those who moved for the exclusion of American dentists from the register really objected to their professional qualifications. One of the most noteworthy points about the dental profession is the comparatively small number actually on the register. It takes 14,823 registered chemists and druggists to supply Great Britain's wants in the matter of medicine, but we estimate that there are probably 10,000 chemists' drug-shops in the United Kingdom. It also needs 32,637 medical practitioners to attend the sick, and beside such figures 4,901 registered dentists seem inadequate for the dental operations, surgical and mechanical, demanded by the community. We do not suppose that the number can be much swelled by unregistered practitioners. There are probably not a thousand of that class in business on their own account, and probably there are not more in the drug-trade who do simple dental operations than there are of unqualified assistants and apprentices employed by registered dentists to do work for which their employers receive professional fees. The last census returned the number of dentists and dental-apparatus manufacturers in England and Wales as 4,973, and, allowing a proportionate number for Ireland and Scotland, the total connected with dentistry in the United Kingdom is something short of 7,000. We should have expected that there would be many more than this, but these are official figures. It may be noted further that there are only 1,397 who have obtained a licence in dental surgery, 663 of these having the English diploma, 246 the Scotch, and 454 the Irish; while 32 have additional medical qualifications. It thus appears that 71 per cent. of registered dental practitioners are of the same class as the chemists who were registered as being in business before 1868. There may be many indifferent practitioners amongst them, but as a whole they may be regarded as well-trained men. The number is necessarily decreasing year by year. Thus when the Act was passed in 1878 there were 4,806 so registered, at the end of 1894 they had diminished to 3,479. This decrease is at the rate of 83 per annum, and it is interesting to note that, when the natural decrease of licensed practitioners is taken into the reckoning, the dental profession is actually degenerating in numbers. Only 84 were registered in 1894, and this was an exceptionally high figure. It also appears that only 91 dental students were registered. The obvious conclusion is that dentistry is not an attractive profession; yet it is a lucrative one, and we are inclined to attribute the paucity of L.D.S. aspirants to the obstacles barring entrance to the profession. To begin with, they find that the standard of preliminary education required is exactly the same as for the medical profession, and that makes them pause to consider whether the latter may not be better. Next they find that an expensive apprenticeship has to be served, and, thereafter, a collegiate curriculum be passed, which virtually makes the course of preliminary training equal in length and expense to the medical curriculum. All this is very good for dentists, but if it helps them to get ten to twenty guinea fees for a case of artificial teeth, we may fairly say that it will be bad for the public. Dentists, in short, are succeeding in restricting the number in their calling by those stringent curriculum conditions which some pharmacists advocate as the only method for killing competition in pharmacy. It is a policy with which we do not altogether agree, for sooner or later the public find out (as in the case of Irish registered druggists) that the highest qualifications are not required for certain services. We should not be surprised if early in the next century such a demand were made in

respect to dentists, especially for some simple test in operative dentistry, which will protect those who serve the working classes from harassing prosecution by dentists in the higher grades of the profession.

### SHEEP-DIPS.

To enumerate the various insecticides which have from time to time been used in various ways as a means of cleansing the fleeces of sheep and freeing them from parasites would be simply to make a list of all poisonous substances generally known. Many of them are now in disuse, and those that are chiefly employed comprise only a small list of poisons, chief of which is arsenic. In some form or other this is the principal ingredient in "poisonous" dips.

Amongst the so-called "non-poisonous" ones carbolic acid or cresol is, again, with perhaps the exception of tobacco, or in some rare cases stavesacre, the main ingredient, under whatever name it is placed upon the market. We propose here to give a few formulae for the preparation of both varieties, thus enabling the chemist to put such upon the market at a reasonable rate, and with profit to himself and satisfaction to his customers.

Of the arsenical variety of dips the following will be found useful and comparatively cheap, and it has the merit of being easily prepared and put up for sale without any elaborate plant:—

|                        |    |    |    |    |    | Oz. |
|------------------------|----|----|----|----|----|-----|
| Arsenious acid         | .. | .. | .. | .. | .. | 12  |
| Dried sodium carbonate | .. | .. | .. | .. | .. | 12  |
| Sulphur                | .. | .. | .. | .. | .. | 4   |

This quantity in packets can easily be retailed at from 8d. to 1s. and is sufficient for twenty-five to thirty sheep, first dissolving in a few gallons of boiling water, and then adding more water to make 30 gallons, to which may be added a few pounds of soft soap if desired. The powder may also be mixed with the soap and sold as a paste dip, when of course the price would be enhanced. Where the price obtainable is not prohibitive the substitution of potass. carb. for soda is an advantage, but here a little more care is necessary in the packing to ensure that no deliquescence takes place.

Another and favourite form of arsenical dip is the substitution of the yellow arsenious sulphide in place of the arsenious acid forming the "yellow dips" for which so much is claimed, and is used in the same way and in the same proportions as the first-mentioned variety, while the cost is practically the same.

It is claimed for this class of dip that they not only kill all parasites infecting the sheep, as well as the eggs, but that they are a sure preventive of the "fly" striking. Unfortunately, this is their weak point, and is the complaint most farmers make in connection with their use; but an advantage is gained by adding 1 or 2 pints of crude cresol to each 50 gallons of dip. The latter in favourable dry seasons helps to keep off this pest considerably.

Of the many forms of so-called non-poisonous dips carbolic acid in some form or other is the principal ingredient, and is no doubt a good effective dip, and may be either compounded in the form of a fluid or paste, the first form of which is effectively represented by any of the "soluble cresols" purchasable at, say, about 1s. 6d. per gallon, retailing at from 2s. 6d. to 3s. 6d.—this quantity being sufficient, with 50 gallons of water for fifty sheep. It compares favourably as to price with the arsenical form.

The paste dips of this class are mostly simply a cheap carbolic soap, containing from 10 to 25 per cent. of acid, of which about 10 lbs. is the usual quantity for fifty sheep, dissolved



in about 40 to 50 gallons of water. It may be noted here that while a certain proportion of soap is useful, too much tends to render the fleece somewhat hard and harsh, thus reducing its market value to some extent, which must be guarded against. Sometimes in place of soap the acid is mixed with a common quality of glycerine, forming what is known as a glycerine dip. This is undoubtedly a useful preparation when the acid is in the proportion of not less than 1 to 2 of glycerine, of which 12 lbs. would be the quantity for about fifty sheep, in the same quantity of water as for the others. In place of carbolic acid, "tar oil" is sometimes used, but is not to be recommended, as, although an effective parasiticide, curing mange and "scab," it has the disadvantage of not mixing well with water or the other ingredients of the dip, and tends to discolour the wool.

Stavesacre-seed in proportion of 1 to 30 of water, boiling for an hour or more, to which may be added sulphur, is also a useful preparation, although too strong solutions tend to cause nausea and prostration.

Tobacco is another favourite in some districts, and as the duty-free article is easily obtainable (see the 1895 DIARY "Bayer's Guide") it makes a cheap and good dip. The following is a reliable formula for ordinary purposes:—

|                              | LB. |
|------------------------------|-----|
| Unmanufactured tobacco .. .. | 1   |
| Carbonate of potash .. ..    | 1   |
| Sulphur .. ..                | 1   |
| Soft-soap .. ..              | 1   |

Boil for an hour in a few gallons of water, and then make up to 20 to 40 gallons, which is sufficient for about forty sheep or fifty lambs.

### HOW AGE AND SOIL INFLUENCE CINCHONA.

MR. P. VAN LEERSUM, the director of the Government cinchona-plantations in Java, has recently published a further communication on his researches into the effect of age, soil, and condition of health upon the alkaloids in living cinchona-trees. A further analytical examination of fifty specimens of *Officinalis* bark showed that the exceptionally high percentage of alkaloids which had previously been observed in certain specimens of the species *Officinalis* is not the result of cultivation. These unusually rich trees are either sporadic exceptions or they may represent a definite chemical variety within the limits of the same botanical species. The last fifty specimens analysed did not include a single one exceeding the average alkaloidal proportions of the *Officinalis* species. Continued investigations relating to the increase and decline of the alkaloidal richness of cinchona-trees show that in diseased trees the cinchonidine percentage increases at the expense of the quinine percentage. Van Leersum supports this statement by quoting thirteen analyses, of which the three following are particularly interesting:—

|                                                       | Quinine p.c. | Cinchonidine p.c. | Cinchonidine + anorpha. alkaloid p.c. | Total p.c. |
|-------------------------------------------------------|--------------|-------------------|---------------------------------------|------------|
| Succubra and Ledger hybrid, healthy tree              | 10.7         | 0                 | 2.7                                   | 13.4       |
| The same tree diseased .. ..                          | 4.17         | 4.90              | 2.15                                  | 11.22      |
| The same tree one year after preceding analysis .. .. | 3.25         | 5.07              | 1.75                                  | 10.07      |

The analyses were made with the dry bark. Six other experiments show the harmful effect of an exhausted or

poor soil upon the alkaloidal richness of cinchona-bark, although cuttings of trees impoverished in consequence of unsuitability of the soil, grafted upon healthy trunks, appear to return to their original richness. Trees containing 10.29 per cent. of quinine while growing on good soil declined to 6.54 per cent. when transferred to a poor soil. One instance is given in which a healthy five-year-old tree contained 10.33 per cent. of quinine; at the age of fifteen exhaustion of the soil had reduced the quinine percentage in the same tree to 6.06.

### ✓ APPRECIATIVE SUBSCRIBERS.

We are very proud of our circulation to countries beyond the shores of the United Kingdom. Our publisher has compiled, and will send to anyone who cares to see it, a list of the towns and cities in the colonies and foreign lands where THE CHEMIST AND DRUGGIST has readers. It is really an astonishing list, and looks, at first sight, almost like the index to an atlas. And not only are our subscribers abroad numerous; they are also very indulgent. We are constantly receiving complimentary letters from them, and not many unkind criticisms. When the latter come we admit they are richly deserved. We do not make many quotations from these friendly notes; but we may be pardoned for referring to a trio which, as it happened, all signed in our morning mail on Saturday last. The first was a letter from Milan. The writer said he had subscribed to THE CHEMIST AND DRUGGIST since he lived in London, and added, with a reckless trust in the future which we can only envy,

We shall be your subscribers for ever, as we must confess—and we are glad to do so—that we owe our trade fortune in great part to your paper. It keeps us at the current of everything happening at London, and from its numerous advertisements we took the addresses of the houses with which we are doing an important trade now.

The next letter was from Budapest. The writer, who had been travelling abroad, had found some difficulty in keeping himself supplied regularly with the journal. He writes:—

I was unable to miss so long your paper, and forced therefore to subscribe at our post-office, from which I get it regularly. You may be assured that I shall remain your true subscriber as long as my business will last.

We hope that, too, will be for ever. Then, in order that all the amicability shall not be monopolised by foreigners, we came on a briefer, but equally pleasant, testimonial from a subscriber in British Columbia, who says:—

Please accept my thanks for your promptness in sending journals. The *C. & D.* is the only authority I consult in our profession, having been practically brought up with it from my apprenticeship.

It would hardly be good for us if all correspondents were as gentle in their criticism as these three; but our severest disciplinarians will not grudge us, we hope, the occasional gorge of sweetmeats such as we had on Saturday.

### DID POE KNOW OF HELIUM?

An ingenious Frenchman has found a passage in one of Edgar Allan Poe's "Tales of Mystery and Imagination," in the course of which one character says:—"I then took opportunities of conveying . . . a quantity of a particular metallic substance or semi-metal, which I shall not name, and a dozen demi-jobes of a very common acid. The gas to be formed from these latter materials is a gas never yet generated by any other person than myself—or at least applied to any similar purpose. I can only venture to say here that it is a constituent of azote, so long considered irreducible, and that its density is about 37.4 times less than that of hydrogen. It is tasteless, but not odourless; burns, when pure, with a



greenish flame, and is instantaneously fatal to animal life. Now that looks more like helium than argon, which the *Westminster Gazette* thinks it is, and we want to know if we are to take it seriously. If so, the proper course is for the shade of Poe to come forward and claim priority.

#### IS WATER ANALYSIS A FAILURE?

The April number of the *Analyst* contains two interesting papers on water-analysis by Dr. A. Dupré and Dr. T. C. Thresh. We withhold comment upon them until the latter paper and the discussion on both are complete; but we may state now that Dr. Thresh is endeavouring, as an analyst and medical officer of health, to get his colleagues of the former class to recognise that the interpretation of the results obtained upon the chemical and bacteriological examination of waters must be influenced by a knowledge of the source of the waters.

#### NEWSPAPER SCIENCE.

We have it on the authority of the *Manchester Guardian* that Mr. Asquith has "proposed to refer to two or three distinguished experts the questions relating to the explosion of a gas-cylinder charged with chlorate of potash that recently occurred at Fenchurch Street Station, London." It is a funny thing to charge a cylinder with chlorate of potash. Probably that is the only form in which oxygen will go as a telegraphic Press message. As a matter of fact, Mr. Asquith has appointed the experts to decide whether the bursting of the cylinders is due to the pressure of oxygen upon an imperfectly-welded steel tube or to traces of impure substances present in the oxygen.

#### FAIR PRICES.

The tenth edition of the "Liverpool Chemists' Price-list" (1s.) has just appeared, and may be got from Mr. Silverlock, London, from Mr. Ellams, Liverpool, or from the wholesale houses. We have been examining it by the side of the fifth edition, published in 1882, and though there is evidence that the most careful revision has been going on, the reductions of price are not, we must say, so startling as one would have expected from the long wails to which we have been accustomed. These prices are put forward as minimum retail and dispensing rates. If Liverpool chemists generally get them, or something like them, they, at least, have not much to complain of. They are not extravagant prices by any means, and due attention seems to have been paid to notable falls in wholesale prices, as, for instance, in the case of quinine. But they are prices which will yield a fair living profit all round. A great deal of labour has evidently been expended on the compilation, and it will be found useful as a guide even to those who cannot quite live up to it. Do the Liverpool chemists really get 1s. for "night attendance," which is named here in a matter-of-fact way at the foot of the page of dispensing prices?

#### MENDELEEFF ON ARGON.

Professor D. I. Mendeleeff has laid his views on argon before the Russian Chemical Society, and we are indebted to *Nature* for these brief particulars. In view of the fact that the discoverers now imagine that argon is a mixture, it is almost amusing to note that the Russian chemist considers "the supposition that it is a mixture lies beyond all probabilities." Taking the possible molecular formulae as  $A_2$ ,  $A_3$ , and  $A_4$ , the Professor says that if it is  $A$  there is no room for it in the periodic system; if  $A_2$  it would find with an atomic weight of 20 its place after fluorine in the second series; but although this assumption is more possible than the first, the Professor is not enamoured of it. He rather favours the view that argon is  $A_3$ , or condensed nitrogen, and he considers that it cannot be  $A_4$  (i.e., with four or five atoms in the molecule), for then there would be no room for it in the periodic system, but there would be for

$A_3$ , and therefore he concludes that the suppositions that argon is condensed nitrogen,  $N_3$ , or that, containing six atoms in the molecule, its place is in the first series of the system, appear to be the more probable ones, if it is a pure simple chemical body.

#### RAYLEIGH ON ARGON.

Lord Rayleigh lectured to the Royal Institution last Friday evening on argon. Before the lecture commenced the audience had practical experience of the  $A_3$  system, and before the lecture was finished they were aware that it favours the creation of inertness in persons as well as in atoms. Lord Rayleigh had comparatively little new to say about argon—that is, new from one point of view. The gas will not combine with titanium, although nitrogen does; but sparked with acetylene ( $C_2H_2$ ) the gas combines and the volume increases (a likeness to and distinction from the behaviour with benzene,  $C_6H_6$ ). Lord Rayleigh protested that neither he nor Professor Ramsay had ever suggested that argon is an element until their paper was read before the Royal Society. He did not insist that the conclusions deduced from the specific heats were absolutely certain, but he pointed out that to prove the gas to be an element was very much like attempting to prove a negative. Finally, he mentioned the interesting fact that he had received a letter from the widow of Helmholtz, saying that her husband in the last months of his life, though lying half paralyzed, still took a keen interest in scientific matters, and on hearing of the discovery of argon remarked, "I always thought there was something more in the atmosphere."

#### THE B.-W. SYSTEM OF MEDICINE.

The *Homœopathic World*, in a leading article entitled "Burroughs & Wellcomeism," seems to claim for homœopathy the glory which is associated with the tabloid system of medication. "Years ago," says our contemporary, "Mr. Burroughs saw that if traditional pharmacy did not mend its ways it would not long be able to compete with the gentle and easy methods of homœopathy. Here was his opportunity. Borrowing from homœopathy the use of sugar of milk as an attenuating substance, he devised the tabloid form of dispensing all manner of strong medicines in high-fractional doses. By persistent and intelligent advertising he brought before the profession the properties and uses of a number of drugs known only to homœopathic and eclectic medicine before; and he thus encouraged the use of one medicine at a time, so strongly insisted upon by Hahnemann. This is not exactly homœopathy (though in some cases the indications given for the remedies are clearly homœopathic), but it is at least a very flattering imitation of it." The writer also states that weak-kneed homœopaths have found "Burroughs & Wellcomeism" a convenient ladder to climb down by.

PHYSICS—Teacher: "Johnnie, what is a stratum?" Johnnie: "A stratum is a hen." Teacher: "Didn't I tell you that a stratum was a layer of something?" Johnnie: "Yes, sir; an' ain't a hen a layer of eggs?"—*National Druggist*.

THE KEPLER MUSICAL SOCIETY held its final entertainment for this season on Monday, in Mason's Hall Tavern, Coleman Street, Mr. T. W. Davies occupying the chair, with Mr. F. C. Stevens as vice. A long programme, containing many admirable things, kept the attention of a highly appreciative audience until a late hour. Among the comics Mr. Gilks, in a clever impersonation of "Miss Winifred Williams," Mr. Alfred Rogers, Mr. Alf Edwards, and Mr. Lowrie were prominent; while the sentimental side found admirable exponents in Messrs. Bull, Hall, Martin Palmer, Bremakill, and Heron. Mr. Clay Sudlow's rendering of "Bill Jinks' Story" brought down the house. Mr. Sudlow also shared with Mr. G. H. Clark the task of accompanying the various forts.



# Constructive Criticism of the British Pharmacopœia.

## V.—LIQUID EXTRACTS.

By MICHAEL CONROY, F.C.S.

IN the present day fluid extracts form a very important class of pharmaceutical preparations, and they are daily becoming more popular. In view, therefore, of the forthcoming revision of the British Pharmacopœia we may very profitably survey the position of British pharmacy in relation to them. The British Pharmacopœia of 1885 contains thirteen—viz., bala, cascara sagrada, cnicifuga, cinchona, coca, ergota, filix mas, glycyrrhiza, opium, pareira, rhamnus frangula, sarsa, and taraxacum—and the Addenda of 1890 two more—hamamelis and hydrastis—making in all fifteen official fluid extracts. This forms a very small list when we compare it with the number that are in constant use in this country, and it is evident that the official list could be extended with great advantage.

The official formulæ, when compared one with another, are very inconsistent, and require a thorough overhauling to bring them up to date. Take, for instance, the first two:—

### *Extractum Bala Liquidum.*

|                  |    |    |    |    |           |
|------------------|----|----|----|----|-----------|
| Bala fruit       | .. | .. | .. | .. | 1 lb.     |
| Distilled water  | .. | .. | .. | .. | 12 pints  |
| Rectified spirit | .. | .. | .. | .. | 3 fl. oz. |

Macerate the bala for twelve hours in one-third of the water; pour off the clear liquor; repeat the maceration a second and third time for one hour in the remaining two-thirds of the water; press the marc, and filter the mixed liquors through flannel. Evaporate to 14 fl. oz., and when cold add the rectified spirit.

### *Extractum Cascara Sagrada Liquidum.*

|                                  |    |               |
|----------------------------------|----|---------------|
| Cascara sagrada in coarse powder | .. | 1 lb.         |
| Rectified spirit                 | .. | 4 fl. oz.     |
| Distilled water                  | .. | a sufficiency |

Boil the bark in three or four successive quantities of the water until exhausted. Evaporate the strained liquors by a water-bath to 12 fl. oz.; when cold add the spirit, allow the mixture to remain for some hours, then filter, and make up to the volume of 16 fl. oz. with distilled water.

Why should the first have only 3 fl. oz. of rectified spirit in 16 and the latter 4 fl. oz. in 16? One requires quite as much spirit to preserve it as the other, and the bala should have 4 fl. oz. It is a common thing for this fluid extract to spoil in warm weather through insufficiency of spirit. In the case of bala we are directed to evaporate the liquors obtained by the three macerations to 14 fl. oz., and when cold and filtered to add the 3 fl. oz. of spirit. This makes 17 instead of 16 fl. oz. from 16 oz. of bala fruit. In the case of cascara sagrada we are directed to evaporate the liquors to 12 fl. oz., and to add the 4 fl. oz. of spirit, filter, and make up to 16 fl. oz. with water. Again, in the case of cascara sagrada, we have the strange anomaly that whilst the fluid extract is made by aqueous extraction, the solid extract is made by extraction with proof spirit followed by water.

These are common instances which show that there are sound reasons for revising the formulæ; and in further considering the matter, it will be convenient to take the subject under three headings—firstly, those extracts that should be deleted; secondly, additions to the list; thirdly, alterations in formulæ.

In regard to the first, the only deletion that I would recommend is the fluid extract of *Rhamnus Frangula*. I am well aware that it is a very difficult matter to say what

should be rejected and what should be retained, for it is a well-known fact that drugs and preparations that are much used in one district are very little used in another. For this reason it is difficult for a medical practitioner or a pharmacist who may be, and generally is, fixed in one district, to give an opinion, but the manufacturer of preparations who distributes them over the whole country is in a better position to give an opinion as to which are popular and which are not. So far as my knowledge extends the one mentioned is very little used indeed, and is only an encumbrance to the Pharmacopœia. All the others are in constant and good demand.

Now we come to the question of additions to the official list, and from a knowledge of those that are popular and in frequent demand I would recommend the following:—Bacha, calumba, cascarella, chiretta, conium, damiana, dulcamara, euonymus, grindelia, hamatoxylon, ipecacuanha, jaborandi, krameria, lupulus, matico, quassia, rheum, scoparium, senega, triticum repens, uræ ursi, and verbascum thapsus.

To some this may seem a very formidable list, but they are only the chief unofficial ones selected from a much larger list that are in continual demand at the present time. There are several reasons why these should be officially recognised beside the fact that they are very popular. When properly prepared with suitable menstrua they contain the whole medicinal properties of the drug; they keep well, are contained in a small compass, and are most convenient to prescribers and dispensers. Another very important reason is that they would, in a very great measure, take the place of the ordinary infusions and decoctions which are so much trouble to prepare, and they would also very soon replace the concentrated infusions and decoctions that are now so very much in use. To have officially recognised preparations that would supply these wants would be a very great advantage to medicine and pharmacy.

We now come to the third part—alterations in formulæ—in which we have to decide (a) the strength of the fluid extract, (b) the mode of extraction, (c) the menstruum most suitable for the purpose.

In regard to the first part custom has settled the point, and with the exception of the liquid extracts of liquorice, male fern, and opium, our present official extracts are all made to the strength that 1 fluid part contains the soluble matter and represents 1 part by weight of the drug. This practice has become so universal, and is so convenient that it should always be followed where practicable.

As to the mode of extraction opinions are found to differ very much. It is obvious that these preparations cannot be made by the simple processes of maceration and percolation without some further means of concentration, and many plans have been devised to obtain this end. Where the menstruum is water, as in the case of liquorice, the matter is simple enough. The coarsely-powdered root may be extracted by percolation with sufficient water to exhaustion, the liquor evaporated to 75 per cent. of the amount required, 25 per cent. of rectified spirit added, and filtered after twelve hours.

In the case of liquorice, and some few other drugs, little



or no harm is done by the heat necessary for evaporation, but it is a method that should not be resorted to where there are active principles that may be injured or destroyed. On a large scale the evaporation can be conducted *in vacuo*, but this is not practicable on the quantities contained in Pharmacopœias, and it is, therefore, useless to recommend it. In all cases of fluid extracts made by aqueous extraction, 25 per cent. of spirit should be used as a preservative. The preservation is not perfect with less, and in this respect our present Pharmacopœia is much at fault.

In extracting with alcoholic menstrua we have the choice of several methods.

(a) In this, the powdered drug is moistened with the selected menstruum, and packed in a suitable percolator; sufficient of the same menstruum is then added to saturate the powder, and maceration allowed to go on for forty-eight hours. Percolation is then allowed to proceed, more menstruum being gradually added as required until the drug is exhausted. The first portion of the percolate, up to 80 or 90 per cent., is reserved, the remainder evaporated to a soft extract, dissolved in the reserved portion, and made up with menstruum to the quantity required. After twenty-four hours the clear liquid should be decanted, and the bottoms, if any, filtered. This is the process given in the Additions of 1890 to the B.P., for the preparation of the liquid extracts of hamamelis and hydrastis.

(b) In this process the powdered drug is macerated with an alcoholic menstruum for forty-eight hours, the liquid pressed out, and set aside. The pressed marc is next mixed with water, macerated for forty-eight hours, pressed, strained, and evaporated to a bulk sufficient to make up the required quantity when added to the reserved alcoholic portion. This is the process given in the B.P. 1885 for preparing the fluid extract of taraxacum.

(c) Preparing a solid extract, and re-dissolving in a chosen menstruum, as given in the B.P. 1885 for liquid extract of pareira, tinct. cannabis indicæ and tinct. nucis vomicæ.

(d) Repeated macerations with pressure until the required quantity is obtained, evaporation of the last pressing, and the resulting extract added as in (a).

(e) Repercolation.—In this the powdered drug is divided up into four or five suitable percolators, and the weaker portion of the percolate from the first put on to the second, and so on until the contents of the series are exhausted, care being taken to economise the menstruum required for each percolator, so that the whole of the contents of the percolators is exhausted by the time the required quantity of liquid extract is obtained.

It will be observed that, with the exception of the last method, heat is necessary. Consequently it is, theoretically, the most perfect; but the amount of detail and labour connected with it is very great, and in practice exhaustion of the drug is not as complete as desirable.

For these reasons this process is not generally followed on a small scale.

Process (d) gives very good results, but the labour and loss of spirit in connection with it are considerable.

Process (e) is most unscientific unless the extract be prepared *in vacuo*; otherwise the extract is liable to be, and in most cases is, injured by heat.

Process (b) must have been invented by someone possessing no practical knowledge whatever. The extraction with proof spirit in the case of taraxacum proceeds in a satisfactory manner, but it is an absolute impossibility to press the marc or residue after the maceration with water. The whole becomes a slimy pulp which cannot be pressed or otherwise worked.

Process (a) is, on the whole, the most satisfactory and the

most suitable for pharmacopœial formulae, and when carefully carried out, the portion that has to be subjected to heat bears a very small ratio to the whole. It is the process chosen in the recent edition of the United States Pharmacopœia.

The next point is the choice of a suitable menstruum, and a very important point it is, for unless a suitable solvent of the active principles of the drug be chosen, a satisfactory product cannot possibly be obtained. In this choice we can only be guided by a thorough knowledge of the nature of the drug, and much practical experience in manufacture. In my opinion, the list I have named, together with the official fluid extracts, should be divided into four sections—(a) extraction with water, (b) two parts rectified spirit and three parts of water, (c) proof spirit, (d) rectified spirit—thus:—

| (a) Water         | (b) Two spirit and three water | (c) Proof spirit | (d) Rectified spirit |
|-------------------|--------------------------------|------------------|----------------------|
| Bela              | Calumba                        | Buchu            | Cimicifuga           |
| Ergota            | Cascara sagrada                | Cascarilla       | Grindella            |
| Glycyrrhiza       | Chiretta                       | Cinchona         |                      |
| Hamatoxylin       | Damiana                        | Coca             |                      |
| Opium             | Dulcamara                      | Conium           |                      |
| Pareira           | Eunonymus                      | Jaborandi        |                      |
| Quassia           | Hamamelis                      | Krameria         |                      |
| Scoparium         | Hydrastis                      | Lupulus          |                      |
| Triticum repens   | Ipecacuanha                    | Matico           |                      |
| Uvae ursi         | Sarsa                          | Rheum            |                      |
| Verbascum thapsus | Taraxacum                      | Senega           |                      |

Filix mas, being an ethereal preparation and not a fluid extract in the accepted meaning of the term, need not be included here.

*Ipecacuanha* keeps best when prepared with an acetic menstruum, and it is an improvement to add 1 fl. oz. of acid, acetic, to each pint of menstruum mentioned above.

*Senega*.—The United States menstruum contains 5 per cent. of liq. ammon. dil., and produces an excellent extract and one that keeps exceedingly well.

*Cinchona*.—This is included in the proof-spirit group. We should certainly alter our formula for this, and produce a fluid extract that shall contain the alkaloids in their natural state as they exist in the bark, and without the aid of hydrochloric acid, which is highly objectionable for many reasons.

The correct degree of the division of the drug has an important bearing on the process of extraction. In the first group above mentioned the bael-fruit should be simply sliced or roughly broken; the ergot crushed by passing through rollers. The others, with the exception of opium, which is simply a solution of extract, should be in a finer state of division. A No. 10 powder works well. The powders should be uniform.

The following is a good process for producing a pint quantity of the first group:—

Macerate 20 oz. of the powdered or crushed drug, as the case may be, in 2 pints of cold distilled water for twelve hours, then pack in a percolator, allow to drain, and pass distilled water gradually through the drug until exhausted. Evaporate quickly, so as to produce 15 fl. oz. when cold, and add 5 fl. oz. of rectified spirit. Filter after twelve hours.

The drugs in the second and third groups should be reduced to No. 20 powder, those in the fourth group to No. 40 powder, and all made by process (a).

Fluid extracts of aconite, belladonna, gelsemium, nucis vomica, and others of a highly toxic character have not been included in the list. The official tinctures of these drugs are sufficiently strong for all practical purposes, and can be more safely handled in dispensing.

Where practicable, fluid extracts should be standardised by approved methods, such as those proposed by Farr and Wright for standardising the official tinctures.



## Glasgow's Ideas of Adulteration and Drug-standards.

At a meeting of the Glasgow Town Council, held on Monday, a list of suggested amendments on the Food and Drugs Act, based on the experience of the Medical Officer of Health, the Chief Sanitary Inspector, and the Public Analysts for the city in carrying out the provisions of the Act, was agreed to, and witnesses were appointed to submit evidence in favour of these amendments before the Parliamentary Committee now dealing with this question. Amongst the amendments of the 1875 Act proposed are the following:—That in section 2 the word "food" should be broadened in its definition, with the view of including all condiments, flavourings, colourings, preservatives, or other substances introduced to, or used along with, human food—that is to say, to every article used for admixture with food or drink of man. That section 3 should be amended by the deletion of the words "so as to render the article injurious to health," and the substitution thereof of the words "which is of a poisonous nature, or which may render the article dangerous or injurious to the health of any person using the same or which is known to be dangerous or injurious to health." It is also suggested that the onus of proving that the added substance is not dangerous or injurious to health should rest upon the defendant. It is further suggested for the consideration of the Committee the advisability of distinctly specifying certain ingredients of an admittedly poisonous, or dangerous, or injurious nature as absolutely forbidden, and in that case the analyst's certificate of the presence of such ingredients, or any of them, would be sufficient to establish a charge of adulteration. It is suggested, too, that the best way to determine what ingredients should be included in such a specific enactment would be by the French method of nominating a commission of acknowledged experts to report upon the same. This could be done, as in France, from time to time—the Food and Drugs Act providing for the addition to the list of proscribed ingredients of these new chemicals which might be found present in human food without warning.

An addition to section 4 is recommended, forbidding the sale of drugs which, not being made from the natural source, contain ingredients which are injurious or prejudicial to persons to whom drugs might be administered; and it is further urged that the British Pharmacopœia should be legalised as the standard for all drugs. At present, it is pointed out, there is no standard for drugs, and therefore it is well-nigh impossible to say, far less to prove, that drugs supplied are not of the nature, substance, and quality demanded, as few, if any, know what they are legally entitled to get.

The Committee further desire sub-section 2 of section 6 be deleted, because it seems surely to be wrong to provide, as at present, that while licensed and qualified dispensers of medicines are subject to the provisions of the Act, unqualified and irresponsible compounders are exempted. In the view of the petitioners it would be only right that proprietary medicines should require to have a label on each packet distinctly and clearly stating their composition. A provision should further be made prohibiting the addition of inert, insoluble, or indigestible substance or ingredient to any article of food, unless the vendor in this case also label the article in such a manner as to clearly reveal to the purchaser the preparation and character of the inert, insoluble, or indigestible ingredient; and where the adulterant exceeds 50 per cent of the total quantity of the article, as is often found in coffee mixed with chicory, it should be made illegal to sell the compound by the name of the adulterant article.

In regard to section 7, it is suggested that compound foods, such as invalids' and babies' foods, meat-extracts, and so-called egg-powders, should also have legibly marked on their coverings their composition, as otherwise, it is stated, the section is of little service to the public, who purchase in ignorance of the contents of these parcels of compound foods, being mainly induced to do so through advertisements.

For the same reason patent or proprietary medicines should be placed under the same category, in order to prevent fraud. In asking for some particular soothing-syrup or certain pills, the public, the petitioners say, get what they demand; but at present they are in complete ignorance of what they ought to get.

Other amendments suggested are:—Giving power to Stipendiary Magistrates in Scotland to try cases under the Act, and the clearing up of the disputed point as to what really constitutes a written warranty.

## Wills of Deceased Chemists.

The will of Mr. H. Palmer, chemist and dentist, of 220 West Street, Sheffield, who died on July 28, 1894, has been proved in London by Miss Elizabeth Sabina Mountain, of 220 West Street, Sheffield, the sole executrix, by whom the value of the testator's personality is sworn at 95*l.* 14*s.*

The will of Mr. Richard Flowerdew, of Eye, chemist, who died on October 27, 1894, has been proved at Bury St. Edmunds by Mr. John Rush and Mr. John Frederick Page, both of Eye, the executors therein named, by whom the gross value of the testator's personality is sworn at 1,377*l.*, the net value being 1,234*l.* 5*s.* 9*d.*

The will of Mr. Joseph Philp, of Wadebridge, chemist, who died on October 13, 1894, has been proved by Miss Susan Reed Philp, the sister and residuary legatee of the deceased, he having omitted to appoint an executor. The gross value of the personality is sworn at 18,093*l.* 15*s.* 2*d.*, and the net value at 12,849*l.* 10*s.* 9*d.*

The will of Mr. William Oakland, of 50 Radcliffe Street, Nottingham, chemist and druggist, who died on September 14, 1894, has been proved at the District Registry by Mr. Edward Frederick Elwell, of The Limes, Farnsfield, the surviving executor named therein; the gross value of the testator's personal estate is sworn at 223*l.* 6*s.* 8*d.*, and the net value at 198*l.* 7*s.* 8*d.*

Mr. Thomas Watkinson, pharmaceutical chemist, of Broad Marsh, Nottingham, having died on September 29, 1894, intestate and a widower, letters of administration to his personal estate have been granted at the District Probate Registry to Mr. John Thomas Watkinson, police inspector, Leicester, the son and one of the deceased's next-of-kin, he having been sworn well and faithfully to administer the same; the value of the personal estate is sworn at 171*l.* 4*s.* 3*d.*

The will of Mr. William Walker, chemist and druggist, of Louth, who died on January 6, 1894, has been proved at Lincoln by Mrs. Harriet Walker, the testator's widow and sole executrix, by whom the gross value of the personality is sworn at 1,427*l.* 5*s.* 8*d.*, the net value being also returned at 1,427*l.* 5*s.* 8*d.* There are no leaseholds.

The late Mr. John Edkins, chemist and druggist, of 36 Edgware Road and Kilburn, died on March 10, 1894, leaving as his sole executrix and universal legatee his wife, Mrs. Rebecca Edkins, but she having predeceased him, administration to deceased's estate has been granted to his son, Mr. Thomas Edkins, chemist and druggist, of 22 Oxford Road, Kilburn, his sureties being his brothers, Messrs. John and Ernest Edkins, who are bound in the sum of 1,700*l.* The gross value of the testator's personality is sworn at 850*l.*, and the net value at 467*l.* 10*s.* 6*d.*

The will of Mr. Allan Hick, of Wath-upon-Deane, Yorkshire, gentleman, previously chemist and druggist, who died on October 5, 1894, has been proved at the District Registry by Mr. Joseph Beaumont Flrth, of Burton Salmon, and Mr. Thomas Humphreys, cashier, the executors, by whom the testator's gross personality is sworn at 27,206*l.* 4*s.* 9*d.*, and the net at 26,544*l.* 5*s.* 8*d.*

The will of Mr. J. C. Smith, of Harbury, near Wakefield, druggist, who died on October 15, 1894, has been proved at the District Registry by Mr. S. B. Hogg, of 21 Great Wilson Street, Leeds, surgeon, and Mr. William Pollard, of Westgate, Wakefield, chemist, the executors. The gross personal estate of the testator is sworn at 614*l.* 13*s.* 6*d.*, and the net at 289*l.* 5*s.* 8*d.*; there are no leaseholds.



## Scientific Notes.

Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected, and Translated.

### TURPENTINE IN COPAIBA.

THE ammonia-test of the German Pharmacopœia for the detection of turpentine is considered to be unsatisfactory, and it is proposed to amend it to read substantially as follows:—Heat 1 part of the balsam on a water-bath to dissipate the ethereal oil, and rub up the residue with 5 parts of ammonia solution. A gelatinous solution is formed if turpentine is present.

### CONINE.

A RECENT examination of Merck's conine by Wolfenstein, revealed the fact that it had an unusually high rotatory power. This was found to be owing to the presence of methyl conine. Pure conine boils at 165.7°–165.9° C., and has a specific rotation of +15.6°. Wolfenstein's results show that Merck's conine contains about 95 per cent. of pure dextro-conine and 5 per cent. of *n*-methyl conine.

### MANUFACTURE OF COCAINE.

THE alkaloids which accompany cocaine have hitherto been rejected because they are valueless. Einhorn and Willstätter utilise them by boiling the whole with a solution of sulphuric or hydrochloric acid in methyl alcohol, whereby they are converted into the methyl ester of ecgonine. This is then converted, by the introduction of a benzoyl group, into cocaine.

### PAUCINE.

THIS is an alkaloid discovered by Merck in the Pauço nut, the fruit of *Pentaclethra macrophylla*, a native of the Congo region. Paucine,  $(C_{27}H_{39}N_3O_5)_2 \cdot 13H_2O$ , occurs in yellow scales, m.p. 126° C., insoluble in ether and chloroform, but soluble in hot water and hot spirit. Shaken with soda solution it quickly imparts to the liquid a brownish-red, then dark-red colour, and the hydrochlorate gives with ferric chloride a dark-green colour.

### AMERICAN OIL OF PEPPERMINT.

POWER and Kleber have re-examined this oil, and find that the specific gravity varies from 0.905 to 0.916, and specific rotation –25° to –35°. The oil contains acetaldehyde, valeric aldehyde, acetic acid, isovaleric acid, pinene, phellandrene, levorotatory limonene, cineol, menthone, menthol, menthyl acetate, menthyl isovalerianate, a menthyl ester of an acid, a lactone, and candinene. After freeing the oil from 3.5 to 14.1 per cent. of ethereal bodies, the yield of menthol was from 24 to 72 per cent.

### THE HÆMATOKRIT.

AT a recent meeting of the Philadelphia College of Pharmacy (reported in the *Alumni Report*), Dr. Judson Daland described the "Hæmatokrit," an instrument which he has invented for determining the quality of blood by separating the corpuscles from the serum and counting them. The instrument consists of a capillary glass tube mounted upon a small machine which, by means of multiplying-wheels, can be made to revolve 10,000 times a minute, the power being applied by hand and requiring seventy-seven turns a minute. A drop or two of blood only is required to make the estimation. The centrifugal force separates the corpuscles from the serum, and through graduated markings on the tube the volume of corpuscles can be read off. By comparing the relative quantities of corpuscles and serum the quality of the blood can be quickly determined. The proportion of white corpuscles to red being so small—only 1 to 500—the former are practically ignored as a factor in the estimation. It was found by experiment that, on an average, human adult blood contained about 51.6 per cent. by volume of corpuscles, and 48.4 per cent. of serum. The superiority of this instrument over the usual method of counting the red corpuscles with a micrometer was evident to the meeting, as an accurate result could be had in a few minutes, while counting with a microscope required some two hours of tireless labour.

### OIL OF CANELLA.

R. T. WILLIAMS, working on 22 kilogrammes of *Canella-alba* bark, has obtained from it essential oil equal to 0.85 per cent. It had a specific gravity of 0.9217, and was dextro-rotatory  $\alpha_D = 1.24^\circ$ . By fractionation he has found it to contain eugenol, pinene, cineol, and caryophyllene.—*Pharm. Rundschau*.

### PERUVIAN-BALSAM TESTS.

RECENT work in Germany on the nitric-acid test for Peruvian balsam, which is performed by treating the residue from petroleum spirit, shaken with the balsam and filtered, with nitric acid, shows that as directed by the German Pharmacopœia it is misleading so far as the detection of copaiba and storax are concerned. A spirit less than sp. gr. 0.688 should not be used. It has taken German chemists a long time to arrive at this conclusion. The misleading character of the test was clearly pointed out by MacEwan, in 1884 (*C. & D.*, xxvi., 395), who also observed that the German nitric acid is too weak to ensure the reactions, and that a petroleum spirit sp. gr. 0.710 or thereabouts is most suitable.

### BISMUTH SUB-SALICYLATE.

THIS salt has been found to be so variable that the following tests proposed by the German Pharmacopœia Commission will be useful:—

As to identity, the salt should give the violet reaction with 5 per cent. ferric-chloride solution and a brownish-black precipitate with  $H_2S$ .

One part of the salt shaken with 10 parts of distilled water should yield a filtrate which does not redden blue litmus-paper.

One gramme of the salt incinerated, dissolved in nitric acid, and again incinerated, yields 0.63 gramme of  $Bi_2O_3$ .

One gramme of the salicylate shaken with 3 c.c. of zinc-chloride solution should yield no colour in the course of an hour.

When 0.2 gramme is mixed with 1 c.c. of sulphuric acid and 2 c.c. of ferrous-sulphate solution added, no blue zone is produced.

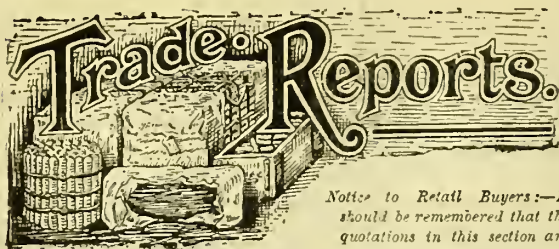
### ARTEMISIN.

MERCK reports that he has found in *santonica*-seeds, or rather in the mother-liquor from which *santonin* crystallises, a beautiful crystalline body which resembles *santonin* but is a distinct substance. One of its most marked peculiarities is that it crystallises with chloroform, the compound being represented by the formula  $C_{15}H_{21}O_4 \cdot CHCl_3$ , but the chloroform is dissipated at 80° C. Artemisin melts at 200° C., and dissolves in sixty times its weight of boiling water. Its sp. rot. is –84.3°, and it may be easily distinguished from *santonin* by the iron and sulphuric-acid reaction. When 0.1 gramme of artemisin is dissolved in 1 c.c. of water and the same of sulphuric acid, and a few drops of ferric-chloride solution added, a slight turbidity and intense golden-brown colour are produced, whereas *santonin* gives a characteristic violet colour. Merck concludes that artemisin is oxy-*santonin*, for the molecule differs only from *santonin* in containing an additional oxygen atom. Whether this principle has any therapeutic properties or not is not stated.

### QUEENSLAND SASSAFRAS.

AT a recent meeting of the Royal Society of Queensland, Dr. J. Lauterer read a paper on "The Sassafras-trees of Queensland." The lecturer stated that there are three kinds—*Doryphora Sassafras*, *Nesodaphne obtusifolia*, and *Cinnamomum Oliveri*, Bail. The last had been mistaken for *Nesodaphne obtusifolia*, until recently Mr. Bailey had found it to be a new species of *Cinnamomum*. Under the name of *Nesodaphne* it has been investigated by Mr. Staiger, by Mr. Maiden, and by the late Dr. Bancroft, who used it extensively in his practice. Under this name, too, it has been recommended by the medical committee as worthy of inclusion in the new edition of the British Pharmacopœia. The so-called sassafras-tree contains  $\frac{1}{2}$  per cent. of camphor (identical with the camphor of the East Asiatic laurel-camphor), which, in the doctor's opinion, might be extracted to yield a profit. The essential-oil percentage is too small to repay distillation.





*Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large*

*quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.*

*It should also be recollected that for many articles the range of quality is very wide.*

42 CANNON STREET, E.C., April 10.

OWING to the nearness of the Easter holidays the volume of business transacted in the drug and chemical markets has been somewhat restricted, but the general tendency of trade is fairly satisfactory. The price of silver continues to advance, and the metal has been in strong demand for the East; bar-silver, which was worth 30*d.* per oz. last Thursday, being quoted at 30½*d.* per oz. yesterday, but that figure has not been quite maintained, 30¾*d.* per oz. being to-day's price. The bank-rate remains at 2 per cent. In the chemical-market there have been a good many changes this week. Tartaric acid is at last moving upward, but in citric no actual change in price has yet occurred; gallic, tannic, and pyrogallic acids are very firm, in sympathy with the increased cost of the raw material; glycerine seems to be tending upward, and cream of tartar is also rather higher. There has been a good demand for carholie-acid crystals, and the price has slightly advanced. Carbonate of lithia has been considerably raised, but up to the present there has been no alteration in the quotation of the other lithia salts, although this is impending. Caffeine continues to be quoted higher after every transaction; quinine firmly held, but without alteration; salicylic acid may possibly be further reduced, if the underselling of the outsiders continues; tartar emetic is rather lower. In heavy chemicals there have been no alterations to speak of. Sulphate of ammonia is very flat and easier, alkali unaltered, chlorate of potash rather steady at the present low quotations, sulphate of copper slightly easier, and yellow prussiate of potash entirely neglected. Refined saltpetre has been reduced in price. The drug-market is quiet upon the whole, with a decided tendency, however, towards a further increase in the prices of Eastern goods, although, owing to the proximity of the holidays, business has been very slight. Balsam of Peru has been cornered and considerably raised in price; tolu balsam is also dearer, and copaiba is tending upward; in asafoetida there has been a fair business at somewhat improved rates; orris-root keeps firm, and tending higher; camphor very firmly held, but without much business. In essential oils, cassia is slightly dearer, but trade seems to have come to a standstill for the moment; citronella oil is also reported higher; Italian essential oils are still tending upwards, and otto of rose seems to be very firm. On the other hand, all varieties of opium, except Persian, continue to droop, and ergot of rye is offered at very low prices. In Amsterdam there have been considerable transactions in Java cinchona-bark at rather higher prices. In articles closely

allied to the drug-trade we have to record the following alterations:—Chinese galls are again dearer, and Bengal turmeric is quoted at higher rates. In varnish gums, copal chips, and scraped kowrie are higher; spices show a firm market for several of the less important varieties, such as fine-flaked and pearl tapioca and nutmegs; black pepper, however, is easier, while white keeps fairly steady; pimento fell ½*d.* to-day; Cochin ginger is firmly held; Zanzibar cloves very quiet; pitch is dearer; benzol steady; oil of turpentine slow of sale; petroleum, however, is dearer, and still advancing; linseed and rape oils firm, and cotton-seed oil quiet.

Among the mineral-water makers and bottlers the complaints of slackness in trade are particularly keen. One of the leading bottle-dealers says that the present season is, so far, the worst he has known in his experience of the bottle-trade, and that he does not see any signs of improvement. To the mineral-water trade in general a repetition this year of the unusually bad season of 1894 would be little short of a disaster. The commercial position of many of the essential oils and several important chemicals depends very largely upon the condition of the mineral-water trade, and it is no doubt largely on account of its unfortunate present plight that tartaric and citric acid still remain as low in price as they are.

The Board of Trade returns for the month of March which were published this week, afford little cause for satisfaction. It is true that, as compared with March, 1894, the value of our exports of goods of British manufacture has increased from 18,098,903*l.* to 18,523,030*l.*, but that increase is more than balanced by the fall in the re-exports of foreign and colonial goods from 5,342,886*l.* to 4,846,599*l.* The value of our imports has also risen from 35,327,037*l.* in March, 1894, to 35,980,590*l.* in March, 1895, but this increase is much smaller than it should have been, considering that the Easter holidays fell in March last year.

#### The Smyrna Opium Syndicate.

The syndicate of opium-speculators in Smyrna, to which we referred recently, has come to an inglorious end. The head of the syndicate, who kept up the price of the drug by large purchases long after the true position of the market appears to have warranted that proceeding, has not, it is reported, been seen on the Smyrna market for several weeks, and, according to the local newspapers, his absence is the subject of unfavourable comments. He is said to have gone to Constantinople to see his friends. A correspondent informs us that from the beginning of the year until the first in March this syndicate-leader bought over 600 cases of opium, of which he lately shipped 400 cases in a steamer called the *Adelphi Couppa*, chartered for Glasgow. Our correspondent says that the destination of this large quantity of opium is unknown, but that it is believed that it will probably find its way to New York.

ACID (CARBOLIC) has been in much better demand lately for crystals. The improved inquiry, however, is restricted to business for prompt delivery and for export. For 34° to 35° Crystals from 5*d.* to 5½*d.* per lb. has been paid. At present 5½*d.* is undoubtedly the lowest price, and it is even doubtful whether it would be possible to obtain anything at that figure. For future delivery the market is rather dull, however, and there has been no change in the price of liquid carbolic.

ACID (GALLIC).—Up to the present, in spite of the great advance in the cost of Chinese galls, there has been no alterations on the part of the manufacturers in the quotation of gallic, tannic, and pyrogallic acids. It appears that an increase of prices would be warranted by the greater cost of the raw material, but competition amongst the manufacturers prevents them from taking advantage of this position. The following are the present quotations:—Acid (gallic), crystals, 1*s.* 9½*d.* to 2*s.*; pyrogallic, in 7-lb. tins, 10*s.* 3*d.* per



lb.; tannic, B.P., in 2-cwt. lots, 1s. 6 $\frac{1}{2}$ d.; smaller wholesale quantities, 1s. 7 $\frac{1}{2}$ d. per lb.; 7-lb. tins, 3s. per lb.

**ACID (SALICYLIC).**—Outside manufacturers still continue to undersell the combination. Up to the present the offers are not considered sufficiently important to warrant a fresh reduction in syndicate prices; but it is intimated that "any serious interference will, if necessary, be met with a further drop of the price of salicylates." The demand for all varieties of these preparations has been very strong lately. If a reduction in the price should be made on the part of the syndicate it is not likely to exceed 6d. per lb.

**ANTIMONY.**—The price of tartar emetic has been reduced by the manufacturers, who now quote 7 $\frac{1}{2}$ d. for *Crystals* and 7 $\frac{3}{4}$ d. for *Powder*, with a reduction of  $\frac{1}{4}$ d. per lb. for 10-cwt. lots.

**ARAROA.**—The 5 cases recently referred to by us have been sold at 2s. 6d. per lb. net terms. There is now nothing left of good quality.

**ARSENIC.**—14l. 15s. per ton for best white powder.

**ASAFOETIDA.**—It is reported that a considerable quantity of the asafoetida sold at the last drug-sales has been re-sold at much higher prices. There is, however, a good deal of recently imported gum in the hands of the importers yet, which will probably be brought forward at the next drug-sales.

**BALSAM PERU.**—On Monday the whole of the available first-hand stock in London, including a parcel of direct import which had just been landed, was cleared off the market by an export firm. Since then the quotation has advanced to 10s. per lb. on the spot, but no business has been done at that figure, or anything like it. We believe that 9s. per lb. would be paid on the spot, but there is nothing left in the importers' hands, and they say that they have not heard of any prospective supplies. For arrival, we understand, 10 cases have been sold at 8s. 3d. lately, and we hear that 8s. 4 $\frac{1}{2}$ d. per lb. was paid on the spot a day or two ago.

**BALSAM COPAIBA.**—Without very much business, although some holders are inclined to advance the price 1d. per lb., and to ask from 1s. 8d. to 1s. 8 $\frac{1}{2}$ d. per lb. for cloudy to bright *Maranhão*.

**BALSAM TOLU.**—Holders have advanced their price one penny per lb., 1s. 3d. being now generally required for good quality.

**BENZOL.**—Fairly steady; 50-per-cent. at 12 $\frac{1}{2}$ d., 90-per-cent. at 1s. 1d. to 1s. 2d. per gallon. It is said that about 20,000 gallons of the latter quality have been sold in London at 1s. 2d. per gallon.

**BORAX.**—There is no change in the price of the combination, which remains 20l. per ton for *Crystals* and 21l. for *Powder*, but the price of the outside manufacturers is 18s. 6d. per cwt. for *Crystals* and 19s. 6d. for *Powder*. In Italy there has lately been a fair business passing in *Boracic acid*.

**CAFFEINE.**—Exceedingly scarce at a fresh advance. Since our last report small wholesale parcels on the spot, all in second-hand, have changed hands at from 20s. up to 22s. 6d. per lb., while for forward delivery (also second-hand) from 20s. up to 21s. 6d. has been paid. The last quotation from the manufacturers was 17s. per lb., but one of them refuses to name the price altogether, and the other one is unwilling to book any contracts earlier than July-August delivery. We have heard it reported that a small lot had been sold at 25s. per lb., but we doubt the correctness of that quotation.

**CAMPOR (CRUDE).**—The direct importers from Japan and China still ask very high prices, but there has been no business to speak of. The current quotations are, on the spot: *Japanese*, 125s.; *Chinese*, 117s. 6d. per cwt.; for arrival, first-hand, *Chinese*, 125s. to 127s. 6d., April-May shipment, c.i.f. terms; *Japanese*, same shipment, 130s., c.i.f. terms. It is stated that the shipments of camphor from Japan in March amounted to only 1,600 piculs, and that the exports from the same country for the first quarter of the present year show a deficiency of 1,500 piculs compared with the corresponding quarter of 1894.

**CAMPOR (REFINED).**—There has been no change in the official quotations of the refiners; but we hear that some

little business has been done this week in second-hands at 1s. 4 $\frac{1}{2}$ d. per lb. for bells—1d. below the official price. There are second-hand sellers from Hamburg at present who offer at 1s. 4 $\frac{1}{2}$ d. per lb., London terms.

**CINCHONA.**—The exports of cinchona-bark from Ceylon from January 1 to March 18 have been:—In 1895, 199,572 lbs.; in 1894, 594,183 lbs. There has just been an arrival of 38 bales of *Maracaibo* bark which comes to a very bare market, and will no doubt be sold rapidly. The last quotation for this variety (rather ordinary quality) in London was 1s. 2d. per lb. The total exports of cinchona-bark from Java in March were 449,000 Amsterdam lbs. Further details concerning the cinchona-auctions held in Amsterdam on Thursday last say that the equivalent of 16,366 kilos. of sulphate of quinine was bought in. The owners of bark did not care to sell at the existing prices, neither were buyers willing to pay any considerable advance at the auctions. The richest parcel of bark offered at the auctions was one of 7 bales *Ledgeriana* root, containing the equivalent of 901 per cent. of sulphate of quinine. It realised 27 $\frac{1}{2}$ c. per half-kilo. (equal to about 5d. per lb.). On the day following the auctions, however, several buyers came into the market, and no fewer than 2,400 bales, representing about 9,000 kilos. of sulphate of quinine, found buyers at the parity of 3c. per half-kilo.

**CLOVES (ZANZIBAR)** have remained inactive, the nearest value being 2 $\frac{3}{4}$ d. for May-July delivery.

**COPPER (SULPHATE).**—Easier, the price being now from 14l. 15s. to 15l. 10s. according to brand, in London, and from 14l. 15s. to 14l. 17s. 6d. per ton, f.o.b. Liverpool.

**CREAM OF TARTAR.**—Firm at 63s. 6d. per cwt. for best white French *crystals*, and 65s. 6d. to 66s. for *powder*. Bordeaux quotes 60s. per cwt. f.o.b., which is dearer.

**ERGOT OF RYE.**—Rather sick. Fair German ergot is offering at 6 $\frac{1}{2}$ d. per lb., c.i.f. terms.

**GALLS.**—*Bassorah*: A fair business in blue galls of the new crop is reported at higher price, although for future shipment the same variety is offering at low rates. *Green* galls are scarce and in demand, and *white* also in small supply. The following are the present quotations: *blue* 48s. to 49s., *green* 36s. to 38s., *white* 32s. to 35s. per cwt. Of *Smyrna* galls there is nothing in stock at present.

**GALLS (CHINESE).**—The present spot quotation for ordinary shape is 60s. per cwt. For March-May shipment 55s. per cwt. c.i.f. has been refused.

**GLYCERINE.**—The price of crude glycerine has lately advanced considerably. The demand for double-distilled, s.g. 1.260, is also very strong, and we understand that most of the manufacturers are behindhand in executing their orders. The prices run, according to brand, from 47s. to 50s. per cwt.

**GUINEA-GRAINS.**—Fairly steady at 15s. 6d. per cwt. in Liverpool, with a slight tendency towards higher prices.

**GUM ACACIA.**—There is very little enquiry at present for either *Trieste* or *Alexandrian* picked gums. *Soudan* sorts are also rather neglected at from 50s. for ordinary dark mixed to 70s. for fine pale soft quality.

**GUM COPAL** is in very large supply. At the auctions held on Tuesday the demand was very quiet, chips being the only variety in request. Full prices were paid for these. *Macassar* gum, brown and amber to good pale hard scraped, realised from 43s. to 66s.; medium to bold softish yellow and amber, 28s. 6d. to 37s.; pale nubbles, 26s. 6d.; small and dusty to bold hard pale chips, 13s. to 23s.; dust and dusty siftings, 9s. to 10s. per cwt.

**GUM DAMAR** quiet. *Singapore* realises high rates: 65s. to 68s. per cwt. for good pale chips. *Batavian* firmly held; at auction only a few cases sold, good to fine pale sifted, 90s. to 105s. per cwt.

**GUM KOWRIE.**—A very large quantity (4,061 packages) was offered for sale on Tuesday. The demand was very good, in spite of the unusually heavy supply, 2,086 packages finding buyers at an advance of from 2s. 6d. to 5s. per cwt. on scraped gums. Three-quarter and half-scraped gums were steady, pickings cheaper, fine chips dearer, other kinds rather easier. Good bush gum was fully 2s. higher.



**GUM MASTICH.**—In very heavy supply with small sales. Good pale drop is quoted at 1s. 9d. to 2s. per lb.; ordinary yellow ditto at 1s. 6d. per lb.

**GUM OLIVANUM** quiet. At auction on Tuesday 109 cases sold at 23s. 6d. for pale and reddish drop, and from 12s. to 21s. 6d. per cwt. for siftings, according to quality.

**GUM TRAGACANTH.**—At auction on Friday 1,985 packages were offered, of which only about 600 found buyers, at easier prices for medium and common qualities. Fine varieties, however, were firmly held at high prices. The following were the quotations at the auctions:—Ordinary firsts, 11l. to 11l. 10s.; seconds, 9l.; common to fair thirds, 9s. to 7l. 10s.; low qualities, from 90s. downwards to 60s. Best pale first quality is held for 13l. 5s. per cwt. *Syrian tragacanth* is scarce, and the stock of *Smyrna* is also small, sales of the latter variety being reported at 10 guineas for seconds.

**INSECT-FLOWERS.**—The demand in Trieste is said to have continued and prices are rising, both on account of the unsatisfactory reports with regard to the new crop, and because of the American orders which have been received.

**IPHCACUANHA.**—Several serons of *Colombian (Cartagena)* root have been sold privately this week at the firm price of 3s. 7d. per lb. for fair, slightly damaged, quality.

**JABORANDI LEAVES.**—Fine quality remains in very small supply, and is held for high prices. Common kinds, however, are plentiful and difficult of sale.

**LITHIA.**—The two manufacturers who now control the article have considerably raised the price of *Carbonate of lithia*, the advance being at the rate of 1s. 3d. per lb. for small parcels, which are now quoted at 7s. 3d., and at that of 1s. for 2-cwt. lots, which are now held for 6s. 6d. per lb. Up to the present no decision has been taken with regard to the price of the other lithia salts.

**MENTHOL** steady, but unchanged. On the spot 15s. 6d. to 16s. per lb. is asked; but menthol now almost due may be had at 14s. 6d. per lb., c.i.f. terms.

**MERCURIALS.**—Up to the present mercurial preparations have not followed the advance in quicksilver.

**OIL (COD-LIVER).**—Good non-freezing new *Norwegian* oil is still offering at 135s. per barrel, c.i.f. terms. The fishing in the Lofoden district is now at an end.

**OILS (ESSENTIAL).**—*American oil of peppermint*: slow of sale at 9s. 9d. for HGH. *Citronella oil*: Rather dearer, with sales of drums at 1s. 1d. per lb. in London. *Oil of lemongrass*: Quiet at 1½d. to 1¾d. per oz. in London. It is reported from China that *cassia oil* is in very strong demand at higher prices; there is scarcely anything offering on the spot at present. In London 5s. per lb. has been paid for fine quality. *Star anise oil* is also dearer in China. The quotations of all the *Italian* oils are tending higher, in sympathy with the advance of the *Italian* exchanges. An agent for one of the *Bulgarian* distillers reports that there is every prospect of a further advance in *Otto of Rose*; and adds that he has received instructions to forward to France the bulk of the stock held by him here.

**OPIUM.**—A small business has been done in *Soft shipping* varieties at almost unchanged prices, the value of this description being at present from 11s. to 11s. 9d. per lb. *Druggists' opiums* are quite neglected, although most owners would be anxious to sell at some sacrifice. The prices are 9s. to 9s. 6d. for good to fine *Smyrna*, 8s. to 8s. 6d. for seconds, 3s. to 9s. 9d. for ordinary to fine *Constantinople*. *Persian opium* is firm with small sales; 11s. 9d. for good quality. Common grades are quoted as low as 10s. per lb. The following are the reports from our correspondents in *Smyrna*, dated March 30:—"The week closing on this date has been a very busy one, an order for the *Philadelphia morphia-factory* having been executed without any difficulty at a low price, showing the disposition on the part of owners to allow no occasion of doing business to escape unused. The reports which have reached *Smyrna* from the growing districts continue to speak of the crop as in an exceedingly good and advanced condition. The weather has been more favourable this year than in any previous season on record, and it is expected that the crop will exceed that of 1886, which amounted to 9,500, and may approach that of 1878,

which yielded 10,500 cases. The most unfavourable estimate amounts to 8,000 cases." Another correspondent writes, on the same date, that the stock in *Smyrna*, the Interior of Asia Minor, *Salonica*, and *Constantinople* together amounts to only about 1,200, the arrivals in *Smyrna* up to date being 2,330, against 1,340 at the same period of 1893 to 1894.

**PERMANGANATE OF POTASH.**—There has been a slightly better demand lately, chiefly, it would seem, for export. Small crystals offer at 52s. 6d. per cwt. in second-hand.

**PITCH** has again advanced considerably, 34s. 9d., f.o.b., having been paid, and 35s. being now asked.

**PRUSSIAN OF POTASH.**—The convention-price for *yellow prussiate of potash* remains 10½d. per lb., but at least one of the "outside" manufacturers offers at 8½d. per lb., and although the combination-members maintain that this particular brand is somewhat inferior, they admit that the market is terribly overloaded and that the immediate outlook for the article is far from hopeful.

**QUASSIA-WOOD** quiet, at 95s. to 100s. per ton for good dry logs.

**QUICKSILVER.**—Very firmly held at the increased price. Manufacturers ask 6l. 15s., second-hand holders 6l. 12s. 6d. per bottle.

**QUININE.**—Very firmly held, but without any business of importance. Second-hand German bulk is quoted on the spot at 11¾d. per oz. We hear that for the *B. & S.* brand 12d. is asked in the same position, and for *Whiffen's* (said to be "very scarce") 13½d. per oz.

**SAL AMMONIAC.**—Unaltered at 39s. per cwt. for best, and 36s. second quality crystals.

**SALTPETRE.**—*English saltpetre* may now be had at 23s. per cwt. in kegs, and 22s. per cwt. in barrels. The price of one of the best known brands of *English refined* has been reduced recently from 24s. 6d. to 23s. 6d. per cwt. The agents for the German Convention announced a reduction of 7s. 6d. per ton on Saturday last, their present price for casks being 20l. 12s. 6d. for kegs, and 21l. 7s. 6d. casks per ton.

**TONCA BEANS.**—Selling fairly steadily at 2s. 6d. per lb. for good frosted *Para*.

**PATENT-MEDICINE BILLS IN MINNESOTA.**—Dr. Zier, of Minnesota, whose Bill requiring the printing of the formula upon patent-medicine bottles was overwhelmingly defeated in the Minnesota Legislature lately, has introduced another measure, which is regarded by the drug-trade of the State as even more objectionable. It confers upon the State Board of Health power to analyse and examine drugs and medicines known as patent or proprietary articles and regulates their sale.

**AN OVERDOSE OF CHLORODYNE.**—An inquest was held at Devonport Dockyard, on Monday, touching the death of Wm. Reypert (40), warrant-officer of H.M.S. *Dreadnought*, in his cabin, after a dose of chlorodyne on Friday last. Mr. A. J. Smith, chemist, of 4 William Street, Morice Town, deposed to deceased coming to his shop and buying a bottle of chlorodyne. Deceased was looking ordinarily well. The instructions as to using the chlorodyne were on the bottle. After medical evidence that deceased had suffered from influenza, and that the cause of death was an overdose of chlorodyne, the jury found a verdict of death by misadventure.

**A CHEMIST SUMMONED.**—In the Lord Mayor's Court, on Wednesday, the case of *Morris v. Rae* came on for hearing before Mr. Roxburgh, Assistant Judge. It was a summons taken out by Mr. W. I. Morris to enforce payment of a sum of 13l. 19s. 2d. (for which judgment had been previously recovered) by the defendant, Mr. Alexander David Rae, chemist and druggist, of 6 Railway Place, Fenchurch Street. Mr. Gowing, solicitor for the defendant, said his client was in a very bad way of business, and had had to call a meeting of his creditors. The plaintiff's solicitor had previously consented to accept a composition of 5s. in the pound, provided his costs were paid. Defendant's assets, however, only showed 1s. 6d. in the pound, and his friends had agreed to make it up to 5s. After further evidence, the learned Judge made an order for the payment of 10s. a month.





### Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications, with, if desired, a distinctive nom-de-plume.

### Anti-cutting.

SIR,—Messrs. S. Maw, Son & Thompson, in their recent communication, referred to the amount of clerical work entailed in the case of one of their numerous customers ordering an odd packet or two of any of the A. & H. preparations with his usual "sundry" order. Surely this could easily be avoided, and any delay in executing the order obviated, if A. & H. were to send to all the leading sundry houses a complete list of those who had signed the agreement. Maw's objection on this score would, I think, then be a trifling one.

Yours, &c.

April 5. T. T. N. (22/63.)

SIR,—The "Ella plaster" statement is rather funny. The proprietor comes around with a plaster that is entirely new, and expects us to make a sale for him at a profit of 3d. in the shilling. Considering that we can get a thoroughly reliable plaster to sell at a profit of 8d. in the shilling, it would be very smart business on our part to make a sale for and recommend the "Ella plaster" at a profit of 3d. All I know is that I should like to start a few proprietaries on that basis, and would willingly protect from cutting.

Yours truly,

COMMON SENSE. (26/59.)

SIR,—With reference to lack of interest shown by chemists on the "proprietary-article" question, I think it is due to their being sick of the whole thing, and no wonder! Still, a beginning has been made by the right people—i.e. the manufacturers—and "success to them!" What I would suggest, however, is that instead of acting individually in the matter, why not join together?—that is, those who are willing, and let one signed contract do for all, thus saving much expense and trouble. Once this was started, I do not think it would be long before all the manufacturers of the most popular patents would join; because, if the retailer got a reasonable profit on the goods, he would not want to push his own substitutes so much, and would not grudge show-room or the trouble of using other people's advertising-matter.

Yours truly,

April 4. CANUCK. (26/12.)

SIR,—We notice in Messrs. Headland's letter of March 26 that they refer to "Vinolia" soap and preparations as yielding 15 per cent. profit when sold at the minimum "cutting" prices. We fully appreciate that Messrs. Headland & Co. could not very well take the time and trouble to go into the percentage of profit on all our preparations, and desire to point out that the average percentage of profit to the trade on all money spent with us by the retailers is over 26 per cent., even when the goods are sold at the minimum "cutting" prices. If the percentage of profit is reckoned on what the retailer sells "Vinolia" preparations for, then the average percentage of profit on all our goods if sold at the minimum "cutting" prices is over 20 per cent. We should perhaps further point out that when the special offers we have made are taken into account the percentage of profit becomes higher. As regards our own anti-cutting system we think we may fairly claim that the only people to whom it has caused much, if any, trouble are those who have broken their agreements with us, or tried to use our goods as a cat's-paw to sell others.

Yours faithfully,

Ryland Road, N W., March 10. BLONDEAU & Co.

### Aconitine Research.

SIR,—My attention has been directed to the publication, in the current number of THE CHEMIST AND DRUGGIST, of a special report of the Research Committee, which was presented to the Council of the Pharmaceutical Society at its meeting in March, and was then referred to a committee for consideration, together with my reply thereto.

That special report—endorsed "private and confidential"—expresses *ex parte* opinions affecting myself which are unfounded and misleading. Its publication is calculated to do me considerable injury, especially as it is unaccompanied by a statement of the important circumstance that, after consideration of my reply, the report was not adopted by the Council.

Common fairness, therefore, demands that my reply should also be published, and I trust to your being furnished with a copy for that purpose from the same source that you have obtained the "special report of the Research Committee," so as to obviate the necessity of sending you a copy myself.\*

Meanwhile, however, the eminent positions of the signers of the report may appear to constitute some voucher for the statements it contains unless they be contradicted. I therefore ask you to insert in the next number of your journal the enclosed brief statement of facts—established by published evidence which refutes the opinions expressed by the Research Committee in the passages quoted from its report and placed in juxtaposition with them.

Yours very truly,

B. H. PAUL.

13 Fenchurch Avenue, E.C.,  
April 6.

The Committee states—

1. "That Professor Dunstan and Mr. Carr were the first to show by quantitative experimental evidence that aconitine is acetyl-benzoyl-aconine."

2. "That there is no evidence whatever that Professor Dunstan and Mr. Carr derived, or made use of, any information published either by Messrs. Ehrenberg and Purfurst, or by Messrs. Freund and Beck."

3. "That Professor Dunstan and Mr. Carr's own abstracts published before the appearance of Messrs. Freund and Beck's paper contain the complete and conclusive evidence of the constitution of aconitine—namely, that it is acetyl-benzoyl-aconine."

4. "The Committee is further of opinion that the research on aconitine, described in the three papers published in 1894 by Professor Dunstan and his colleagues, has been executed in a careful and satisfactory manner, and that it in no respect merits the disparaging remarks made upon it by the Editor of the *Pharmaceutical Journal*."

The facts are as follow—

The demonstration that aconitine is acetyl-benzoyl-aconine was published by Freund and Beck on February 19, more than three weeks before statements to the same effect were made by Professor Dunstan and Mr. Carr.

The information given by Ehrenberg and Purfurst was published eighteen months—that given by Freund and Beck more than three weeks—before the appearance of statements to the same effect by Professor Dunstan and Mr. Carr.

The abstracts do not contain any evidence at all that aconitine is acetyl-benzoyl-aconine; but, on the contrary, they put forward an entirely different view of the constitution and relations of aconitine and isaconitine—representing both as having the same composition, and as being different forms of benzoyl-aconine. It is inconceivable that the language used in the third abstract (*Pharm. Journ.*, liii. 582) could have been used by a person cognisant of the facts published by Freund and Beck. No amount of testimony could make that credible.

The account given of the aconitine research in those papers is internally inconsistent and, for the most part, eminently unsatisfactory. Two of the "original papers" put forward a view of the relation of aconitine to isaconitine, which differs from the view put forward in the previously published abstracts, and even in the first of the "original papers."

\* We should gladly publish Dr. Paul's reply to the Research Committee's Special Report. It seems to us essential to a correct apprehension of the points in dispute. But we have no copy of it, and have not been able to get one. Will somebody kindly help us?—ED. C. & D.



### Women in Hungarian Pharmacies.

SIR,—I am very astonished to read in your issue of March 23 that our Hungarian Government intend to agree to the employment of women in the Hungarian pharmacies, especially because nothing of this kind has been made known in our own land.

You are right our late Minister, Lukács, said at one time, that it would be desirable that women should be employed in pharmacies; but this is all, and no more has been done about this matter.

For the sake of truth, I felt compelled to write you this, hoping you will profit by it, and correct the statement of the issue in question, especially as we are accustomed to take the contents of THE CHEMIST AND DRUGGIST as doubtless facts.

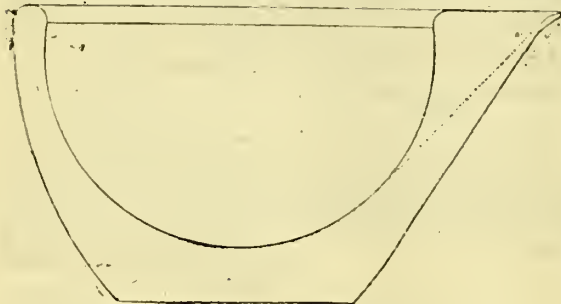
Budapest, March 26.

Yours faithfully,

FÉNYES LEO.

### A Mortar which will Pour.

SIR,—Is there a mortar made out of which it is possible to pour any quantity of liquid without spilling, say to fill a bottle with cod-liver oil emulsion, or a suppository-mould with melted oil, theobromæ, &c.? Certainly I have never met with one; and I am of opinion that the invention of such an article would effect a considerable saving of "language."



I submit a design, upon which some of your readers can perhaps improve. The lip of the mortar of commerce is a farce; it neither begins low enough down nor projects far enough. I am not sure that I have given the lip sufficient projection, but one would like the mortar to be as shapely as possible.

Epworth, March 19.

Yours, &c.,

C. C. BELL.

### In Vain was the Snare Set.

SIR,—The following, which occurred two weeks ago, may be a caution to my brother chemists.

I have a branch shop about 100 yards from the central one. The business is a small retail with wholesale among village shops. A stranger entered—tall and of gentlemanly address—in the middle of the day, when the usual assistant was at dinner, and offered a prescription to an apprentice, who asked him to take a seat while it was sent to me to be dispensed. "Are you in charge?" "Only while the assistant is at dinner. Would you take it over yourself, sir?" "No; I do not want to go so far. But you can put it up very easily." "Oh no, sir; it is not my duty to dispense prescriptions," were questions and answers which followed.

He left the shop, and returned half-an-hour later, this time to find the assistant, who, I may say, is not a qualified man. The prescription was again tendered, and was observed to be covered with about a dozen stamps from drug-stores, &c., all over the United Kingdom. It read as follows:—

|                                |         |        |
|--------------------------------|---------|--------|
| Tr. nucis vom. . . . .         | .. .. . | ℥ 45   |
| Acid. hydrochlor. dil. . . . . | .. .. . | ℥ iii. |
| Spc. chloroform. . . . .       | .. .. . | ℥ i.   |
| Aque ad. . . . .               | .. .. . | ℥ iii. |

The following conversation ensued:—"Will you take a seat, please; I will take it to the other shop to be dispensed." "Oh, aren't you in charge?" (same words again). "Yes; but this contains one of the poisons under the Act and must only be dispensed by the principal. Perhaps you would like

to take it over yourself?" "No; I do not want to go so far" (same words repeated). "Well, sir, I am sorry, but I can only let you have the ingredients without the nux vomica." "Let me see," says the gentleman, "I think I have that in my pocket." Fumbling about to find it without success (never was there), "Dear me! I find I haven't it; but you can put it up very easily, you know." "I am sorry, sir, I cannot. It is against the rules; but if you will wait it shall be dispensed at once." "No, thank you. Never mind." And then the individual departed, evidently not satisfied with the result.

This seems very much like an attempt to get up a case, and if it emanates from our Society, as I have every reason to believe it did, is not much to boast of. Urging the assistants to break the law, as was done in each case, by remarking, "Oh, you can do it easily enough," if it is not beneath contempt, is certainly a blot on the reputation of the Society, to say the least of it.

Yours very truly,

A WEST OF ENGLAND CHEMIST. (19/30.)

[We do not know what may be the force of our correspondent's "every reason to believe" that this stranger was an emissary of the Pharmaceutical Society. But in any case we are not much disposed to share his indignation. We want to see the Pharmaceutical Society enforce the Pharmacy Act, and we do not see how they are to do this without the assistance of spies; and if spies have to be employed we must expect spy practices. When the spies always get frustrated the work will have been accomplished.—ED. C. & D.]

### Sterilising Bottles.

SIR,—I have to bottle considerable quantities of a sterilised liquid, and it is necessary that the bottles should be sterile also. Whether this be ensured by boiling, steam, or hot air the process is tedious, and the bottles are liable to fracture. There is always danger that bacteria may enter the bottles during the process of cooling unless extraordinary precautions be adopted, or a special heating-chamber be employed. This becomes a serious matter when large numbers of bottles are needed. Another point is that it is not possible to wash bottles clean with ordinary tap-water, as it always contains suspended particles which adhere to the insides of the bottles, and which must be displaced by filtered or distilled water. I have found that all this trouble and expenditure of time can be avoided by the use of a Berkefeld filter. After a preliminary washing in hot water to remove dirt, a sufficiency of filtered water passed through the bottles renders them sterile without the need of heating, or even of drying; and, moreover, perfectly clean and free from "bits."

Yours truly,

A. PERCY SMITH.

69 Berners Street, W.,

April 6.

### Prescribing Proprietaries.

SIR,—I enclose a specimen of how some doctors now write prescriptions. Another one orders "Gerard's pastilles."

If this increases, the chemist, instead of being a dispenser, will become simply a distributor of proprietary articles. It is hardly fair, seeing the way these articles are now cut.

If local secretaries were to call a meeting of the chemists in their district, and draw up a circular to be forwarded to all the doctors, asking them not to prescribe proprietary articles (as the Edinburgh chemists have done), it might have beneficial results.

Yours truly,

Southport, April 2.

A. G. (21/38.)

[Edinburgh chemists simply wish such things as Fellows's syrup to be prescribed along with something else to avoid stamping.—ED. C. & D.]

### New Patent Law for Portugal.

SIR,—By advices just to hand we have received information that a new Patent Law has been published in Portugal which will tend to the further development of industrial enterprises in that country. We have not yet received a full text of the new law, but we find that many of the defects of the existing law are corrected and—perhaps what is of more importance to English inventors desiring to secure patents







16/44. *E. R.* makes up the following Children's Powders:—

|                            |      |
|----------------------------|------|
| Calomel, .. .. .           | 5vj. |
| Pulv. sacch. alb. .. .. .  | 3ij. |
| Pulv. antimonialis .. .. . | 5ij. |

M.

Dose: 4 to 8 gr., according to age.

The complaint is that the powders, with or without the antimonial powder, make a number of children sick. No wonder: a grain of calomel is enough for any child between 1 year and 10 years. The dose in these powders is  $1\frac{1}{2}$  gr. to  $2\frac{1}{2}$  gr. It is possible also that the powders may contain a trace of mercuric chloride, which always forms in mixtures of calomel and sugar.

13/45. *W. B.*—It is impossible to make the ingredients into a varnish without quadrupling the spirit. We expect that it is one of the formulae which incompetent persons give publicity to, and which we have had occasion to criticise before now. Gum kanri is not readily soluble in spirit: it has first to be cracked. Four ounces of sandarac to a pint of wood naphtha would make a suitable varnish to colour with aniline.

13/62. *Ajax*.—Tinct. Strych. Nitrat. (Kidd's):—

|                             |           |
|-----------------------------|-----------|
| Strychnine pure .. .. .     | gr. v.    |
| Acid. nitric. fort. .. .. . | ℥xl.      |
| Aq. destillat. . . . .      | ℥iss. ℥℥. |
| Spt. vini rect. .. .. .     | ℥ij. ℥x.  |

M.S.A.

12/57. *C. N.*—Paste Blacklead:—

|                             |                |
|-----------------------------|----------------|
| Blacklead in powder .. .. . | oz.            |
| Treacle .. .. .             | 20             |
| Water .. .. .               | 1              |
|                             | a sufficiency. |

Make into a paste, and perfume if desired with a drop or two of oil of mirbane.

12/37. *F. P. W.*—Wanklyn's books on milk and analysis would suit your purpose. They are published by Kegan Paul, Trübner & Co. at 5s. each.

19/7. *Calcium*.—See our last Educational Number, September 16, where full information is given regarding the London University exams.

19/45. *Chemicus*.—There is no American official preparation called Pulv. Acetavillidi Co., but we presume that it is such a powder as Mr. Grling gives a formula for in our issue of January 5, page 31.

15/37. *Aris*.—The sulphur floats on the surface of the Sulphur Hair-lotion because air-bells are attached to it. We have repeatedly recommended milk of sulphur to be used, as when well mixed with water it does not float, and it answers the purpose as well as the pure precipitated sulphur. The best way to proceed in making the following is as stated underneath:—

|                             |        |
|-----------------------------|--------|
| Sulph. precip. pur. .. .. . | 5viij. |
| Plumbi acet. pur. .. .. .   | 5xvj.  |
| Aq. lavand. .. .. .         | ℥iv.   |
| Tr. cantbaril. . . . .      | ℥iv.   |
| Glycerin. .. .. .           | ℥vj.   |
| Aq. rose ad .. .. .         | ℥iv.   |

Triturate the sulphur and lead acetate in a mortar, and make into a thin paste with an ounce of glycerine previously mixed with an ounce of the tincture; add 6 oz. of rose-water, and transfer to a Winchester-quart bottle containing 40 oz. of rose-water and the rest of the glycerine, tincture, and lavender-water. Wash out the mortar with enough rose-water to make 80 oz. of the lotion. Transfer to the bottle, and shake.

15/72. *A. D.*—Oil of Bones is synonymous with oil of man or ol. animalis.

15/49. *Mortar and Pestle*.—(1) The makers of the "Enterprise" apparatus manufacture a meat-juice extractor, which is similar in principle to their tincture-press. Rollins & Co. (Limited) are the agents, but you will probably obtain one of the extractors through a London sundries-house. (2) No doubt some veterinary surgeons may give 20 gr. of Arsenic to a horse twice or thrice daily without doing serious or any harm; but we do not think a chemist and druggist would be well advised in following their example. The dose is double what is usually recognised as the maximum, and if any injury were following, the administrator and the dispenser would, in England and Wales, be liable under the Administration of Poisonous Drugs to Horses Act (DIARY, page 201).

## INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

Salt of Lemon.—Inquiry was made recently (257/20, "Humber") for a non-poisonous formula for salt. I use—

Pulv. acid. citric.  
" crem. tart., pt. eqq.

Misce bene, et adde ol. bergamot, q.s.

I reserve the usual oxalate formula for "salt of sorrel" label, but for safety both labels are marked "Poison."  
E. S. V. (26/11)

Anodyne Pine Expectorant is a syrup each fluid ounce of which represents—

|                                             |        |
|---------------------------------------------|--------|
| White-pine bark .. .. .                     | 30 gr. |
| Balsam poplar (Balm of Gilead) buds .. .. . | 4 "    |
| Spikenard-root .. .. .                      | 4 "    |
| Sassafras bark .. .. .                      | 2 "    |
| Wild-cherry bark .. .. .                    | 30 "   |
| Blond-root .. .. .                          | 34 "   |
| Morphine acetate .. .. .                    | 34 "   |
| Chloroform .. .. .                          | 4 min. |

Both Messrs. Jno. Wyeth & Brother and Messrs. Parke, Davis & Co. list the preparation. It is much prescribed in this country for recent coughs and colds.

Rat Portage, Ont., March 22. CANNIFF & JOHNSON.

25/9. Canada also replies.

## Next Week.

Wednesday, April 17.

Western Chemists' Association, Westbourne Restaurant, 1 Craven Road, W. At 8.30 P.M. Smoking-concert.

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, Edinburgh. At 9.15 P.M. Annual business meeting.

Royal Microscopical Society, 20 Hanover Square, London, W. At 8. Mr. A. D. Michael on "The Form and Proportion of the Brain in the Aribatidae and in some other Acarina."

Thursday, April 18

Chemists' Assistants' Association, 103 Great Russell Street, W.C. At 8.30 P.M. Mr. Charles Morley on "The Rational Pharmacist."

Midland Pharmaceutical Association. Social meeting at Midland Hotel, Birmingham, at 8.30 P.M.

Friday, April 19.

Edinburgh Chemists', Assistants', and Apprentices' Association. Annual supper in the Imperial Hotel.





TRADE MARK.

# TOMLINSON'S DAIRY HELPS.

ESTABLISHED 1842.

**TOMLINSON'S BUTTER POWDER.**—Shortens the time of churning, corrects all unpleasant tastes, increases the yield.

**TOMLINSON'S BUTTER COLOUR.**—A pure Danish preparation, always sweet, never changes, goes farthest, and gives most natural tint.

**TOMLINSON'S "PRESERVATIVE."**—A genuine antiseptic, guaranteed effective for preserving Milk, Butter, Fish, &c. Medical Certificate of Purity.

**TOMLINSON'S EXTRACT OF ANNATTO (pure liquid).**—For Cheese Colouring, &c.

**TOMLINSON'S RENNET.**—For Cheese Making; also a suitable preparation for Curds and Whey. Strength and Purity guaranteed.

**NOTE.**—*These useful and pure Dairy Helps are well advertised, and sell readily. Attractive Printed Matter. Liberal Terms.*

**BEWARE OF IMITATIONS.**

Only Address—**TOMLINSON & CO., MINT STREET WORKS, LINCOLN, ENGLAND.**

## CRYSTAL PALACE JOHN BONDS GOLD MEDAL MARKING INK

Sale ever increasing at Home and Abroad, showing the appreciation by Trade and Public of this original and genuine Preparation.

### GIVEN AWAY

And enclosed with every 6d. & 1s. Bottle and every 6d. & 1s. Marking Ink or Pencil, a voucher entitling Purchasers to their Re-vulcanised Gold Medal Rubber Stamp. Name in full or Monogram, for Marking Lines or Paper. Original Patentee of the Marking Ink Pencil.

**WHOLESALE and EXPORT DEPOT:—75 SOUTHGATE ROAD, LONDON, N.**

*Send for Illustrated Price Lists and Samples for Travellers and Showrooms.*

**LARGEST SALE OF ANY MARKING INK IN THE WORLD.**

**NOTE THE**

# "VINOLIA"

# SPECIAL EASTER OFFER

**On Pages 6 and 7 (bottom folios).**



CRESCENT



BRAND.

# BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

## ANALYSIS.

|                        |   |   |   |   |   |       |
|------------------------|---|---|---|---|---|-------|
| Bicarbonate of Soda    | — | — | — | — | — | 97.20 |
| Mono Carbonate of Soda | — | — | — | — | — | 1.90  |
| Sulphate of Soda       | — | — | — | — | — | trace |
| Chloride of Sodium     | — | — | — | — | — | .035  |
| Moisture               | — | — | — | — | — | .82   |
| Insoluble              | — | — | — | — | — | nil   |

# PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers,  
Bleachers, Dyers; Glass, Paper, and Soap Makers.

## CONCENTRATED CRYSTAL SODA

(Sesqui-Carbonate).

By far the Purest and Cheapest form of Washing Soda.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda.

# SODA CRYSTALS

OF THE FINEST QUALITY.

Also BLEACHING POWDER.

# BRUNNER, MOND & CO., LIM.

*Manufacturers of Soda by the Ammonia Process,*

NORTHWICH, CHESHIRE.



# PAYING LINES.

**RICHARDSONS** claim with perfect confidence to be, not only the originators of Pearl Coated Pills, but to be absolutely the largest makers thereof in the world.

**RICHARDSON'S CAPSULES** have obtained an enormous popularity entirely by their merit, and are admitted to be absolutely "The Best in the Market."

**RICHARDSON'S COMPRESSED TABLETS** are acknowledged by consumers and by the Press to be equal to those of any maker, and to contain absolutely pure drugs.

**RICHARDSON'S MEDICATED LOZENGES** of the B.P. and other formulæ will be found most reliable. They can be supplied stamped with name or number, at the purchaser's option.

**JOHN RICHARDSON & CO., LEICESTER, LIMITED.**

ESTABLISHED 1793.

INCORPORATED 1891.

CENTENARY 1893.



# DUNCAN, FLOCKHART & CO.

*Wholesale and Export Druggists,*

**EDINBURGH.**

## CHLOROFORM

(DUNCAN'S).

PREPARED FROM PURE AND METHYLATED SPIRIT.

Also CHLOROFORM (BLUE LABEL).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in stoppered bottles, securely luted, and in hermetically sealed flasks when required.

*N.B.—We guarantee all the above CHLOROFORMS to be PURE CHLOROFORM, answering all the tests of the British Pharmacopæia.*

ESTABLISHED  
1772.

**HENRY'S CALCINED MAGNESIA**

Continues to be prepared with scrupulous care in the greatest chemical purity, by

Messrs. THOMAS & WILLIAM HENRY, 11 East Street, St. Peter's, Manchester,

And is sold in bottles, authenticated by a Government Stamp bearing their Name. Trade Mark, "Henry's Calcined Magnesia."

Price 4s. 6d. or 2s. 9d.

NEW YORK—MESSRS. W. H. SCHIEFFELIN & Co., William Street. PARIS—MESSRS. ROBERTS & Co., 5 Rue de la Paix.

## BARRON, HARVEYS & CO.

GILTSPUR STREET, LONDON, E.C.,

beg to inform their friends and the Trade generally that, having purchased the Business of

**BARRON, SQUIRE & CO., BUSH LANE,**

and also the various Formulæ of the Special Preparations of

**JAMES BASS & SONS, HATTON GARDEN,**

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

*Specimens of these Preparations have remained in the Museum of Kew Gardens during 28 years without deterioration.*







# Schiffelin's

(NEW YORK, U.S.A. ESTABLISHED 1794.)

# PERFECT PILLS.

THESE PILLS AND GRANULES ARE IN TASTELESS TRANSPARENT COATING.

Special Attention is called to the following:—

## ALOID, STRYCHNINE ET BELLA- DONNE, 1st form.—

{ Aloin, 1-5 gr.  
{ Strychnine, 1-120 gr.  
{ Ex. Belladonnae, 1 gr.

## ALOID, STRYCHNINE ET BELLA- DONNE, 2nd form.—

{ Aloin, 1-5 gr.  
{ Strychnine, 1-60 gr.  
{ Ext. Belladonnae, 1 gr.

## ALOID, STRYCHNINE ET BELLA- DONNE COMP.—

{ Aloin, 1-5 gr.  
{ Strychnine, 1-60 gr.  
{ Ext. Belladonnae, 1 gr.  
{ Ext. Cascara Sagradae, 1 gr.

## ALOID, STRYCHNINE BELLADONNE ET IPECAC. (Lapacties).—

{ Aloin, 1 gr.  
{ Strychnine, 1-60 gr.  
{ Ext. Belladonnae, 1 gr.  
{ Ipecac. Pulv., 1-16 gr.

## CASCARA SAGRADA EXT., 2 grs.

## CASCARA SAGRADA EXT., 3 grs.

## ERGOTIN, 1 gr.

## ERGOTIN, 2 grs.

## ERGOTIN, 3 grs.

## ERGOTIN COMP.—

{ Ergotin, 3 grs.  
{ Ext. Cannab. Ind., 1 gr.  
{ Strychnine, 1-60 gr.

## HYDRARGYRI IODIDI RUB., 1-25 gr., 1-16 gr., 1 gr., 1-5 gr., 1 gr.

## PHENACETINE ET QUININE—

{ Phenacetine-Bayer, 3 grs.  
{ Quinine Sulphatis, 2 grs.

## PHENACETINE ET SALOPHEN—

{ Phenacetine-Bayer, 2½ grs.  
{ Salophen, 2½ grs.

## QUININE, FERRI ET ZINCI VAL.

{ Quinine Valerianat., 1 gr.  
{ Ferri Valerianat., 1 gr.  
{ Zinci Valerianat., 1 gr.

## STRYCHNINE, 1-100 gr., 1-60 gr., 1-50 gr., 1-40 gr., 1-32 gr., 1-30 gr., 1-20 gr.

## STRYCHNINE SULPH., 1-200 gr., 1-100 gr., 1-60 gr., 1-50 gr., 1-40 gr., 1-32 gr., 1-30 gr., 1-20 gr.

THEIR THERAPEUTIC ACTION IS NOT IMPAIRED BY AGE OR CLIMATE.

SOLE AGENTS—

**POTTER & SACKER, 7 Fowkes Buildings, Great Tower St., LONDON, E.C.**

## CURANILLO,

The only Safe, Certain, Reliable, Rapid  
Remedy for

**INFLUENZA, ASTHMA, BRONCHITIS,**

AND ALL

**LUNG TROUBLES,**

And a Potent Regulator of the LIVER and  
other Secretory Glands.

**CURANILLO** has received the following important and irrefutable medical and analytical testimony:

PROFESSOR WANKLYN, M.R.C.S., late of Edinburgh University and St. George's Hospital, London, says:—"It is an excellent remedy for bronchial affections, and for coughs and colds I know of nothing better. It is free from opiates, and may be given to children with perfect safety."

DR. O. W. DE LAOY EVANS, M.R.C.S., Ph.D., Medallist of St. Thomas's Hospital; Author of "How to Prolong Life," "Consumption, its Causes and Successful Treatment," "Cholera, its Causes and Prevention," &c., says:—"Curanillo contains several valuable extracts from fruits, and, in regard to health and longevity alone, is one of the best preparations extant, independent of its separate beneficial action and curative properties, in diseases of the throat and chest."

DR. J. BRODIE, L.R.O.P., L.R.C.S., says:—"I have tried this preparation on several patients with most beneficial results, and it is my opinion that for asthma, bronchitis, and general coughs it cannot be beaten."

\* \* As **CURANILLO** is being extensively advertised, Chemists will find it a quick selling line, and one that may be confidently recommended.

Price, Retail, 2/9 per bottle.

WHOLESALE AGENTS—

**BARCLAY & SONS, LTD., 95 FARRINGDON ST.**

AND ALL WHOLESALE DRUGGISTS.

SOLE PROPRIETORS—

**NORTON & CO., 23 BARKETT'S BUILDINGS, HOLBORN CIRCUS, LONDON, E.C.**

We beg to call the attention of the Trade to the following sample parcels of

## COOPER'S CONCENTRATED LIQUORS.

Thus enabling Pharmacists to test the quality of our  
Manufacture without stocking any quantity.

Forwarded on receipt of P.O. or Cheque, CARRIAGE PAID,  
to any Railway Station in Great Britain or Ireland, BOTTLES  
and PACKAGES FREE.

### No. 1.

4 fld. ozs. of Liq. Ferri Iodidi sufficient to make 32 fld. ozs. of Syrup.  
4 " " " Phosph. " " 32 " "  
4 " " { Quinine et Strych. } " " 32 " "  
16 " " { Phosph. } " " 64 " "  
16 " " Parrish " " 64 " "

### No. 2.

4 fld. ozs. of Liq. Ferri Iodidi sufficient to make 32 fld. ozs. of Syrup.  
4 " " Easton " " 16 " "  
4 " " { Hypophosph. Co. } " " 32 " "  
16 " " { c. Quinia et Strych. } " " 64 " "  
16 " " Parrish " " 64 " "

Either for 12/- Double above quantities, 22/-; and Quadrupled, 40/-.

### No. 3.

4 fld. ozs. of Liq. Papaveris sufficient to make 32 fld. ozs. of Syrup.  
4 " " Pruni Virg. " " 32 " "  
4 " " Rhamni " " 32 " "  
4 " " Rhei " " 32 " "  
4 " " Rhazados " " 32 " "  
4 " " Scille " " 32 " "  
4 " " Sennae " " 32 " "  
4 " " Tolutanns " " 32 " "

Any of the above may be replaced by either Liquor Limonis, Syrup Ferri et Quiniae Hydrobrom., or Syrup Ferri et Quiniae Hydrobrom. c. Strychnia.

For 9/- Double above quantities, 18/-; and Quadrupled, 30/- No. 3,  
with either No. 1 or No. 2, for 20/- Double quantities, 37/-;  
and Quadrupled, 70/-.

Single Bottles of any of our Specialities can be obtained through any  
Wholesale House, or direct from the SOLE MANUFACTURERS—

**COOPER & CO., 2 New North Road, LONDON, N.**



# TASTELESS PILLS.—COX'S PATENT.

DATED AND SEALED APRIL 13<sup>TH</sup>, 1854.

AND AS A FURTHER PROTECTION



The Registrar of Trade Marks (after giving the usual public notice prescribed by Parliament to allow of opposition) has granted us the appended **Trade Mark**, and no pills will be sent out without this mark on all bottles or packages.

**OUR NEW CATALOGUES SENT POST FREE ON APPLICATION.**

These contain 800 Coated and Uncoated forms of different strengths, requiring not less than 3,000 bottles and jars, and our stock includes the majority of the approved new remedies (suitable for pilular form) up to present date.

To prevent inferior goods being substituted, Medical Men and Chemists are requested, when ordering through Wholesale Houses, to specify—

## COX'S TASTELESS PILLS,

*Or order direct from us, we paying postage and carriage.*

Our Mr. Cox invented and introduced pearl-coating to render pills tasteless more than forty years ago, and our trade, which is constantly increasing amongst the highest class of Medical Men and Chemists, is doubtless *four or five times* as large as the rest of our copyists' put together.

**ANY FORMULA DISPENSED AND COATED. QUOTATIONS AND SAMPLES FREE.**

**ARTHUR H. COX & CO., Original Makers of Tasteless Pills,  
ST. MARTIN'S PLACE, BRIGHTON.**



Telegraphic Address—"Cox Brighton."



# TO THE MEDICAL PROFESSION AND CHEMISTS.

---

Owing to misapprehensions as to the amount of morphine used in the preparation of

## **Mrs. WINSLOW'S SOOTHING SYRUP,**

we wish to state that the amount is one-eighth ( $1/8$ ) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth ( $1/64$ ) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),

W. RENAUD, Managing Director.

33 Farringdon Road. London.

---

To Chemists and Druggists,  
Wholesale and Retail.

It having been brought to our knowledge that certain Chemists in the United Kingdom are selling as Bromidia a substance not manufactured by Messrs. Battle & Co., We Hereby Give Notice that legal proceedings will be instituted to restrain any persons from selling under the title or name of Bromidia, or any name which will be liable to be mistaken for the same, any substance not of the manufacture of Messrs. Battle & Co. We are the Sole Wholesale English Agents for this preparation.

Yours faithfully,

ROBERTS & CO.,

76 New Bond St.,

London, W.

16th June, 1894.



# THOMAS TYRER & CO.

MANUFACTURING AND OPERATIVE CHEMISTS,

Stirling Chemical Works, Stratford, London, E.,

## "STERLING BRAND"

BISMUTH, MERCURIALS, & SCALE PREPARATIONS.  
ESSENCES, ETHERS, SPIRITS (IN BOND).

APPLY TO

HEADQUARTERS,  
AND

SAVE 20 PER CENT.

VANILLA BEANS A SPECIALITY.

BOURBON BEANS, Straight, also Dressed after the Mexican style.

PRICES AND SPECIFICATIONS ON INQUIRY FROM

HENRI LYON,

41 AVENUE DE L'OPERA,

PARIS.

THE

# FULLERS' EARTH MINING CO., LIMITED.

Works, Mines, and Offices:—WOBURN SANDS, BEDFORDSHIRE.

BEST AND PUREST

# FULLERS' EARTH

IN THE MARKET.

HIGHEST AWARD CHICAGO EXHIBITION, OCTOBER, 1893.

**SPECIALITIES.**—Lump Earth for Woollen Manufacturers, &c. Powdered Earth for Refining Oil, Lard &c. Specially selected Fullers' Earth for the Toilet and Nursery. Packed in beautifully designed Boxes.

SAMPLES AND PRICES FREE ON APPLICATION.

ACKNOWLEDGED BY ALL WHO USE IT TO BE PURE AND FREE FROM ALL IMPURITIES.

BEWARE OF SPURIOUS IMITATIONS.



# MARTINDALE'S NITROGLYCERINE TABLETS.

These are preferred to the alcoholic solution, being in accurately divided doses, and in a perfectly safe, stable, and portable form. If kept dry they will keep for years in any climate. In Boxes, Retail 2/6 and 4/6 each.

For export to hot climates, corresponding quantities are sold in Bottles. For Hospitals and Dispensing, in Bottles, 2-oz., 4-oz., 8-oz. Wholesale quantities, 22/6 per lb. Bottle, subject to usual terms.

The above contain  $\frac{1}{100}$  grain, or average dose, in each. They are also prepared one-half and double, as well as other strengths.

MARTINDALE'S GLASS CAPSULES of NITRITE of AMYL, IODIDE of ETHYL, BROMIDE of ETHYL, and CHLOROFORM, encased in cotton wool and silk. Retail, 2s. 6d. per box.

COCAINE PASTILS for allaying irritation of the Throat.

COCAINE AND MORPHINE COUGH PASTILS.

CASCARA SAGRADA PASTILS. COCA PASTILS as restoratives.

MARTINDALE'S PORTABLE INHALER for inhaling medicated moist air.

MARTINDALE'S POOR MAN'S INHALER. A cheap form of the above.

MARTINDALE'S OZONIC INHALER for dry inhalation, for INFLUENZA.

MARTINDALE'S NASAL OZONIC INHALER.

PEPTONISED MEAT SUPPOSITORIES for rectal alimentation.

MARTINDALE'S EFFERVESCENT SULPHATE OF SODIUM, PHOSPHATE OF SODIUM, SODIO-MAGNESIAN APERIENT.

EFFERVESCENT PIPERAZINE, PIPERAZINE with PHENOCOLL, & ANTIPYRINE.

DRIED MOSS in sheets. Antiputrescent, and absorbent of discharges.

PURE ALKALOIDS and their SALTS.

FINE CHEMICALS and PREPARATIONS of RARE DRUGS.



**W. MARTINDALE,**  
10 NEW CAVENDISH STREET,



Pharmaceutical Chemist,  
PORTLAND PLACE, LONDON, W

## W. KEMP & SON,

WHOLESALE DRUGGISTS,

Manufacturing Chemists, Drug Grinders and Importers,

**HORNCASTLE.**

PRICES CURRENT FREE ON APPLICATION.

**SICILIAN AGENCY:**

OIL OF LEMON,

OIL OF BERGAMOT.

At best Wholesale Prices for first quality.



**BEST CRUSHED LINSEED,**

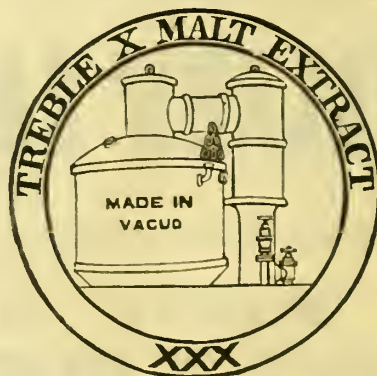
PURE BEESWAX,

OPIUM, INSECT POWDER, GENUINE DRUGS & CHEMICALS

**B.P. PREPARATIONS.**

Small Expenses. Small Profits. Guaranteed and Quality.

HORNCASTLE, LINCOLNSHIRE.



A nutritious Diastatic Extract from  
the finest English malt.

UNEQUALLED IN DIASTATIC STRENGTH.

SOLE AGENTS—

## R. MORRISON & Co.

2 Fen Court, Fenchurch Street,

**LONDON, E.C.**



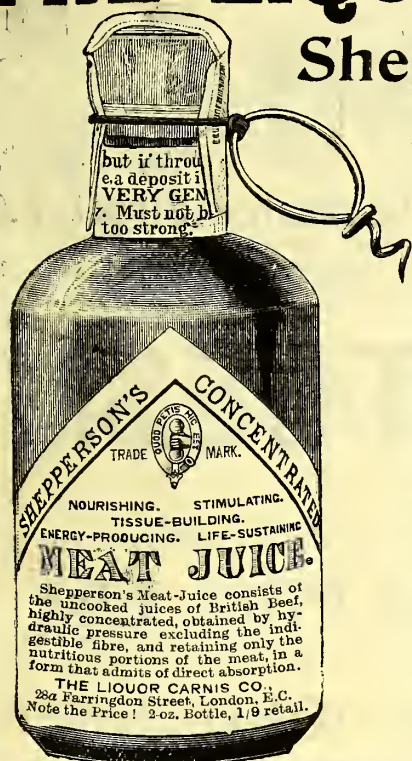
28a FARRINGTON STREET, LONDON, E.C.

# THE LIQUOR CARNIS CO.

## Shepperson's Meat-Juice

(PATENTED).

(CONCENTRATED).



### A CHEAP MEAT-JUICE.

"This is a very excellent preparation of meat-juice. It contains the albumins and albuminoids in their raw condition, and in a greater abundance than many other preparations of the same character, and, moreover, it is sold at a most reasonable price. Nothing has done more to limit the consumption of a form of food invaluable to invalids than the exorbitant price at which most of these preparations are sold. The taste of this preparation is much more palatable than most others of its class, and we have no doubt that the Liquor Carnis Co., who are the manufacturers, will receive the support of the medical profession in their efforts to establish an invalid food of the highest nutritious value and of pleasant taste at a moderate price." — *Medical Annual*, 1895.

### A FORCIBLE LETTER.

Leeds, April 4th, 1895.

Your "Shepperson's Meat-juice" which I have recently had the opportunity of comparing with other invalid-nutrients, undoubtedly scores a double victory in the domain of dietetics, over the prejudices of "the public" (as regards raw meat-juice), and over the rest of competing preparations in the market. It is far beyond most of these in-nutritious elements, and perceptibly superior in food-value (as estimated by its coagulability with acids) to even the best of them.

So thorough is my conviction of the unexaggerated truth of this (unsolicited) statement, that I shall in my practice rely on it solely, and recommend it before all others.

You have, *me judice*, solved the hitherto insuperable difficulty of how to make a meat-juice at once rich in life-sustaining properties and appetisingly savoury to the palate, and you well deserve the rewards that must follow on public acquaintance with your efforts towards an ideal sick-room regimen. Sincerely yours,  
FREDERICK LEES, M.R.C.S., Eng.,  
L.R.C.P., Lond.

# Schacht's Preparations.

## SCHACHT'S LIQUOR BISMUTHI.

Absolutely pure. The original preparation, invented and introduced to medicine by Mr. Schacht in 1855. Its distinct superiority is universally admitted. In  $\frac{1}{2}$  lb., 1 lb., 2 lb., and 5 lb. bottles. Dose: 1 drachm diluted. When ordering, please to specify "SCHACHT'S."

## SCHACHT'S LIQ. BISMUTHI SEDATIVUS.

Contains pure Bismuth and *Pepsina Liquida* in combination with sedatives. A formula most serviceable in the treatment of gastric pain. In 4 oz.,  $\frac{1}{2}$  lb., and 1 lb. bottles.

## SCHACHT'S SYR. CINCHONÆ ALCOHOLICUS.

A standard preparation, of definite alkaloidal strength, containing the entire medicinal properties of the finest Cinchona Bark. It is, in fact, Bark minus the woody fibre, and its efficiency has been proved by careful medical inquiry. Dose: Ten to sixty drops.

## SCHACHT'S PEPSINA LIQUIDA (REGISTERED TITLE).

Fluid Pepsine of extraordinary activity—tasteless, odourless, attractive to patients, and reasonable in price. Every teaspoonful when tested by the official B.P. process is guaranteed to effect the solution of 1,000 grains of albumen. Peptic power is the only test of value. Most of the fetid and repulsive dry Pepsines have proved worthless. In 4 oz. bottles, 6s. 6d. each; and larger sizes, for dispensing, at a cheaper rate.

## SCHACHT'S PEPSINA LIQUIDA C. BISMUTHO.

Each drachm contains in a concentrated form, besides the fluid Pepsine a full dose of Schacht's Liquor Bismuthi. Dose: One drachm in  $\frac{1}{2}$  lb. and 1 lb. bottles.

N.B.—*Peps. Liq. c. Bismutho Co. contains, in addition, one grain soluble Euonymin in each drachm.*

## SCHACHT'S PEPSINA LIQUIDA C. EUONYMIN.

Each drachm contains one grain of soluble Euonymin. Dose: One drachm. For dispensing,  $\frac{1}{2}$  lb. and 1 lb. bottles.

## SCHACHT'S LIQ. PODOPHYLLI C. BISMUTHO.

A perfect solution of Podophyllin, containing  $\frac{1}{2}$  grain in each drachm

## SCHACHT'S LIQUOR CASCARÆ DULCIS.

A pleasant and active form of Cascara Sagrada. Dose: One to three teaspoonfuls diluted. In 4 oz.,  $\frac{1}{2}$  lb., and 1 lb. bottles.

## SCHACHT'S INFALLIBLE RENNET.

An entirely new Essence, perfectly reliable, for the coagulation of Milk and the production of Junkets and Curds and Whey. It is a preparation of the most wholesome nature, that contains no salt, and has no special taste, smell, or colour. In large bottles at 1s. of any Chemist's. This Essence keeps well in any climate.

The above Preparations can be procured from Messrs. Barclay & Sons, W. Edwards & Son, and the Wholesale Druggists; or direct by post from

# GILES, SCHACHT & CO., Clifton, Bristol.





**H. POTHS & CO., 3 Creechurch Lane, Leadenhall Street, E.C.**

SHOP BOTTLES AND JARS WITH VITRIFIED (BURNT IN) LABELS

METAL SCREW-CAP BOTTLES, GLASS MEASURES, STOPPERED BOTTLES, &c.  
*Buyers are requested to pay a visit to our New Showrooms.*



# BOTTLES.

OUR NEW AND GREATLY ENLARGED

## Illustrated Price List

NOW READY. INSPECTION OF SHOW ROOM INVITED.

**JOHNSEN & JØRGENSEN,**

Botolph House, 10 Eastcheap, LONDON, E.C.

### DISPENSING BOTTLES.

#### THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. .. 7/6 per gross. | 10 & 12 oz. .. 12/- per gross.  
 6 " 8 " .. 3/6 " | 16 " .. 16/- "

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

1/2 oz. .. 3/6 per gross. | 1 1/2 oz. .. 4/6 per gross.  
 1 " .. 3/9 " | 2 " .. 5/- "

#### PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

**I. ISAACS & CO., Glass Bottle Manufacturers,**  
 106 MIDLAND ROAD, ST. PANCRAS, LONDON.

*Established 50 years.*

*Bankers—London and Westminster Bank.*

### DISPENSING BOTTLES

With Rounded Edges. First-rate quality, sent washed and papered ready for use, at the following low prices:—

3 and 4-ounce ... 8/- per gross.  
 6 and 8 " ... 9/- "  
 10 and 12 " ... 12/- "  
 16 " ... 17/- "

EITHER PLAIN OR GRADUATED.

Six Gross, assorted or otherwise, sent Carriage Paid to any part of England; smaller quantities not carriage paid.

Please say, when sending order, that you wish them sent washed and papered; there is no extra charge.

#### THE ISLINGTON GLASS BOTTLE COMPANY

(H. HARRIS & CO.,)

153 Upper Thames Street, City, London.

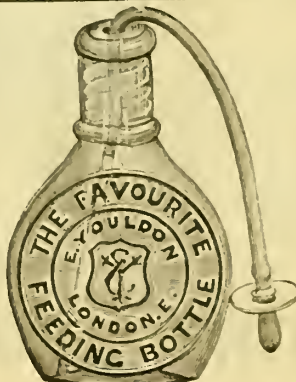
*Bankers—London and Westminster Bank.*

*Established upwards of 50 years.*

*All other kinds of Bottles at very low prices.*

## OUR FEEDING BOTTLE IS UNDOUBTEDLY THE FAVOURITE.

*A Trial will Prove this.*



A sample dozen of these Feeders, White Glass, in strong partitioned wood box, will be sent on receipt of

**3/2.**

*Delivered Free in London.*

**E. YOULDON** (Established 1840), 36, 38, & 40 Great Garden Street, LONDON, E.



# BREFFIT'S BOTTLES AND GLASSWARE.

~~~~~  
OUR
ILLUSTRATED PRICE LIST
READY.

FREE UPON APPLICATION.

~~~~~  
❁ SHOP ROUNDS ❁  
AND  
LABELLING.

~~~~~  
FEEDING BOTTLES.

~~~~~  
PERFUMERY BOTTLES.

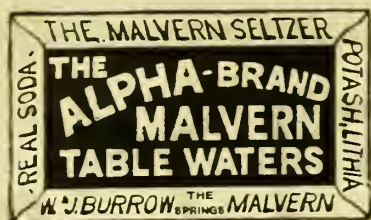
---

Offices—83 Upper Thames Street, LONDON.

Telephone 1843.

Telegrams—"BREFFITS."





**SPONGE IMPORTERS.**

**M. PETERSON & CO.**  
6 HOUNDSDITCH, LONDON.

FOR HOME, FOREIGN, & COLONIAL MARKETS.

**"THE CHEMIST AND DRUGGIST" SERIES**

Which all Chemists ought to have  
and to read as faithfully as their British Pharmacopœia, viz.:-

**THE ART OF DISPENSING.**

3s. 6d., by post 3s. 10d.

**HANDY BOOK OF MEDICINE STAMP DUTY.**

2s. 6d., by post 2s. 9d.

By E. N. ALPE, Solicitor's Department, Board of Inland Revenue (with  
Supplement expounding the Law and Practice to date).

**MANUAL OF PHARMACEUTICAL TESTING.**

2s. 6d., by post 2s. 9d.

By BARNARD S. PROCTOR, F.I.O.

Published at the Offices of "THE CHEMIST AND DRUGGIST."  
LONDON, MELBOURNE AND SYDNEY



A combination of Camphor, Eucalyptus, and  
Coal Tar. A Powerful Disinfectant, Deodorizer,  
Insect Destroyer, and Air Purifier.

**CAMPFORTAR**

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

**HEBDEN'S  
CHLORIDE OF LIME**

**AIRTIGHT, ODOURLESS, WATERPROOF PACKETS**  
Retains the Chlorine and keeps the Powder dry longer than  
any other packet.

4 oz., 8/- GROSS; 8 oz., 16/- GROSS; 16 oz., 30/- GROSS.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

MANUFACTURED ONLY BY  
**W. C. HEBDEN,** Albany Works, YORKSHIRE,  
HALIFAX.

**WILEY'S CHEMICAL ESSENCE**

FOR

**LAMENESS IN HORSES.**

**HANDBILLS, WITH NAME & ADDRESS, SUPPLIED GRATIS.**  
**50 YEARS' UNBROKEN SUCCESS.**

**SOLE MAKER AND PROPRIETOR, FRANCIS E. ROOKLEDGE, CHEMIST, EASINGWOLD, YORK.**  
TO BE HAD OF USUAL WHOLESALE HOUSES.

**"THE MOST POWERFUL GERM DESTROYER AT  
PRESENT KNOWN TO SCIENCE."**



Now  
supplied by the chief  
Wholesale Houses.

Show Cards,  
Pamphlets,  
Printed Matter,  
And any information  
the Trade may require,  
can be obtained on  
application to

**Allen & Hanburys,**  
BETHNAL GREEN,  
LONDON.

Who are the Sole Bottling  
Agents for the Manufac-  
turers.

**DISINFECTANT (Non-poisonous).**

**BYROLIN.**

Aseptic and Antiseptic Ointment and Emollient.

**HIGHEST AWARD—**

Chicago, 1893.  
GOLD MEDAL—Leipzig, 1892.

**SILVER MEDALS—**

Antwerp, 1894; Berlin, 1892-3  
Dresden, 1894.

Prof. Dr. A. von Bardeleben, on Dec. 20, 1894, writes:—  
"According to my experience of many years, it is the best of all such salves."

**INVALUABLE FOR CHAPS, BURNS, AND ALL SORES.**

In tubes -7/8, 1 1/2, and 2 1/2.

WHOLESALE AGENTS—

**J. HOWARD & CO., 20 & 21 Queenhithe, LONDON, E.C.**





Manure  
by Special Appointment



Manufacturers  
to Her Majesty the Queen.

UNIFORM STRENGTH AND QUALITY GUARANTEED.

(NON-POISONOUS.) **FLUID & POWDER** (NON-POISONOUS.)

*Disinfectants*

UNEQUALLED FOR DOMESTIC USE.

Testimonials and Evidence of Value on application to the Secretary.

**ODAMS' MANURE & CHEMICAL CO., LIMITED,**  
116 FENCHURCH STREET, LONDON, E.C.



**25-LB. TINS. 2 TINS IN CASE.**

THE CHEMIST AND DRUGGIST says:—

"The oil is free from low-boiling terpenes, has  
a specific gravity of 0.9075, and has a  
delightful odour."



**KANGAROO**

**EUCALYPTUS OIL**

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.  
To be obtained of your Wholesale Druggist.



SOLE CONSIGNEES—  
LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON.

COLONIAL ADDRESS—  
A. M. BICKFORD & SONS, Wholesale Druggists  
46 Currie Street, ADELAIDE.





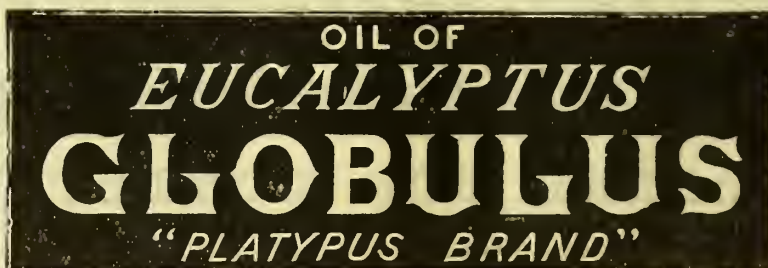


AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASSED.

Extract from Analytical Report of Dr. S. Rideal, F.C.S., F.I.C., F.G.S., Jan. 3rd, 1895.

"Practically free from any taste, and no traces of any free acid, \* \* \* are high-class Petroleum Jellies."

**SNOWDON, SONS & CO., MILWALL, LONDON, E.**



**TASMANIAN EUCALYPTUS OIL CO.**

138 LEADENHALL STREET, LONDON, E.C., and HOBART, TASMANIA.

**JACKS' PILLS** THE BEST FAMILY MEDICINE ON EARTH.

They cure Constipation, Biliousness, Indigestion, Fulness after Meals, Sick Headache, Heartburn, Flushings of Heat, Cold Chills, Depressed Spirits, Sleepless Nights, Liver Complaints, Palpitation of the Heart, Pains in the Back, all Nervous Disorders, &c. &c. For Females of all ages they will be found the best medicine on earth, never failing to cure all complaints and symptoms incident to the sex. With full directions. Price 9d., 1/11, and 2/6, from all Chemists, or direct from the Proprietor, **THOMAS JACKS, 8 St. George's Circus, LONDON, S.E.** Small Pill, Pearl-coated, Tasteless. All Chemists, Druggists, and Stores should stock these pills, which are being well advertised, and, as they are really good, are now in great demand.

**GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.**

**JOHN OAKLEY & SONS, LIMITED,**

MANUFACTURERS OF

Glass and Flint Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

**OAKLEY'S WELLINGTON KNIFE POLISH**

Prepared expressly for Oakley's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

**OAKLEY'S NON-MERCURIAL SILVERSMITH'S SOAP,**

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

**OAKLEY'S "POLYBRILLIANT" (REGISTERED).**

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste. Tins, 1d., 2d., 3d., and 6d. each.

**WELLINGTON BLOCK BLACK LEAD,**

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

**WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.**

Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.



# WHY PAY FINES?

5/-

SEIDLITZ POWDERS, B.P.

HAND WEIGHED, HOWARD'S SEIDLITZ, BEST ENGLISH ACID.

PER CROSS, IN ONE BOX.

IN 12 BOXES, 12 IN EACH,  
Neatly Labelled and Wrapped.

5/6

BARCLAY & SONS, Ltd., 95 Farringdon Street, LONDON.

## LOFTHOUSE & SALTMER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL,

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of **CITRATE OF MAGNESIA**.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all



Essential Oils; Valentin Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copalba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Bland's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

## THE INCANDESCENT GAS LIGHT

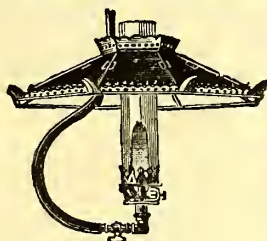
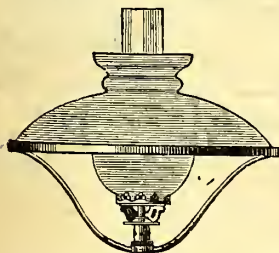
(WELSBACH SYSTEM).

TREBLE THE LIGHT WITH HALF THE GAS  
OF ORDINARY GAS BURNERS.

## SUPERIOR TO ELECTRIC LIGHT

At One-eighth the Cost.

Can be attached to Existing Gas Fittings.



BRILLIANT, COOL, SOFT, STEADY LIGHT.

THE LIGHT for HOME or BUSINESS.

Full particulars Post Free on application to the

Incandescent Gas Light Co., Ltd.

PALMER ST., WESTMINSTER, LONDON.

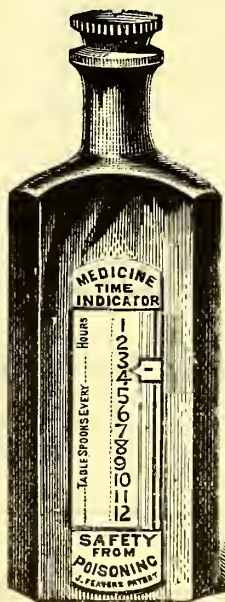
BRANCHES AND AGENCIES THROUGHOUT THE KINGDOM

## A GOOD LINE FOR THE TRADE.

## MEDICINE TIME INDICATOR

And POISON PREVENTIVE.

This invention is for use on Medicine bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations not intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indi-



cate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.

Special Terms to the Trade. Apply to the Patentee

J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.



# FREDK. FINK & CO.

10 & 11 MINING LANE, LONDON, E.C.

**SPECIALITIES:** Glycerine — Gum Arable —  
Gum Tragacanth—Pure Beeswax—Honey.

## THE "MORSTADT" Cachets

Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 5 to 15 grains Quinine or Salicylic Acid.

"MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.

SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 5/6.

THOMAS CHRISTY & CO., 25 Lime Street, LONDON, E.C.

## CINCHONA BARK AND CRUDE DRUGS.

**SPECIALITIES OF**  
**FREDK. GRAF,** Drug Merchant,  
65 Fenchurch Street, LONDON, E.C.  
PRICES AND SAMPLES ON APPLICATION.

## HUGO LORENZ, 7, 8 Idol Lane, LONDON, E.C.

CHEAPEST HOUSE FOR THE FOLLOWING:—

|                                         |               |
|-----------------------------------------|---------------|
| Pot. Bromide                            | Sugar of Milk |
| Do. Iodide                              | Acid Boracic  |
| Do. Permanganate                        | Iodoform      |
| S.V.R. in 40-gallon drums, pure tinned. |               |

## JUNE'S HEALTH BATH SALT.

A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.

**GOOD PROFIT GUARANTEED.**

WRITE FOR SAMPLES & TERMS.

LANDOR, ANDERSON & CO., 165 FENCHURCH STREET, E.C.

## "SILVERY WHITE GUTTA PERCHA ENAMEL" TOOTH STOPPING.



P. A. STEVENS, Surgeon-Dentist,  
73 MANSFIELD ROAD, N.W.,  
SOLE PROPRIETOR AND MANUFACTURER.

Registered—No. 2745

Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name. A sample box of 3d. sticks sent post free for 12 stamps. Price list and sample free.

This Space is Let for a Series to  
**SAUNDERS BROTHERS,**  
Manufacturing Chemists, &c.  
Offices: 6 ROCHESTER SQUARE, LONDON, N.W.  
Keen Buyers of all CHEMICALS, DRUGS, and  
SUNDRIES should write for Quotations.  
**ENOUGH FOR THE WISE.**

## Yanatas

(REGISTERED).

THE ABSOLUTE PREVENTATIVE OF SEA SICKNESS.

Wholesale Agents—DAKIN BROTHERS, 87A Leadenhall St., LONDON.

## IT WILL COST NOTHING.

Our Export List mailed free to  
Drug Buyers abroad.

**H. E. STEVENSON & CO.,** Successors to the Ex-  
FLETCHER. FLETCHER & STEVENSON, port Business of  
SOUTHWARK ST.,  
LONDON E.

## PHILLIPS & CO., LD.

Wholesale and Manufacturing Chemists and Exporters of Indian Drugs  
**BOMBAY,**

Have special facilities for the Collection and Shipment, at favourable rates, of all Indian Medicinal Products.

LONDON OFFICE—18 FINSBURY CIRCUS, E.C.  
CORRESPONDENCE INVITED.

## NESS & COMPANY, DARLINGTON,

**SPECIALISTS IN**

**SHEEP DIPS** (Fluid, Paste, Powder) and **DISINFECTANTS**

Highest Award World's Fair, Chicago, and Four Gold Medals.

WRITE FOR PARTICULARS AND SAMPLES.

## ARTHUR A. BARRETT, MESSINA, Pharmaceutical Chemist,

Not in connection with any other Barrett in Messina.

Absolutely Pure Essence of Lemon.

" " " " Sweet and Bitter Orange.

" " " " Bergamot.

**SPÉCIALITÉ:—CONCENTRATED OIL OF LEMON.**

Thirty times the Strength of ordinary Essence.

Telegram: "Carboy Messina."



**IN COLLAPSIBLE TUBES, BOXED.**

Sample Dozen **8/-** Carriage Paid.

TESTIMONIALS FROM

Madame Georgina Burns,  
J. T. Ainslie Walker, F.C.S.,  
F. Sharples, F.R.C.S., F.R.C.P.

**LUTHENI & CO. BLACKBURN, Eng** Sample Tube 1/- Post Free

## THE THORNTON-PICKARD CATALOGUE POST FREE

USE THE Time & Instantaneous  
**SIMPLEST & BEST. SHUTTERS**

LARGEST SALE IN THE WORLD  
Time & Inst. from 1/6; Snap Shot, from 10/-; Focal Plane, from 35/-

THE THORNTON-PICKARD MFG COMPANY,  
ALTRINCHAM, NEAR MANCHESTER.



## E. H. THIÉLLAY'S (Registered 1867) EUCALYPTUS GLOBULUS.

From "Eucalyptus Globulus." An authentic regenerator of the hair, instantly stopping its falling off, and is invaluable for hairdressing; a safeguard in epidemic times protecting surrounding the respiratory functions from malarious and vitiated emanations. In Bottles at 2/6, 3/6, 4/6, 7/-, 10/-, &c.

All Wholesale Houses, or direct from  
**E. H. THIÉLLAY.**

Parfumeur-Chimiste, Amersham Park, New Cross, LONDON.  
(SHOW ROOMS AT CHARING CROSS HOTEL.) (3)



## KOMCHACIN CALORIC

Has for Twenty Years Cured

**PILES, HEMORRHOIDS, AND FISSURE.**

As this Remedy is now being extensively advertised, Chemists should write for particulars to Central Depot for the United Kingdom,

**23 The Pharmacy, Allerton, Bradford, Yorks.**

Manager—A. A. KNIGHT, Chemist.



## GLENDENNING'S BEEF AND MALT WINE.

THE FINEST PREPARATION OF THE KIND IN THE MARKET.

Prices and terms on application. Agents appointed.

**W. GLENDENNING & SONS**, Importers of Special Wines for Invalids,  
9 GRAINGER STREET, NEWCASTLE-ON-TYNE.

Established 1867.

Invaluable  
for  
Cyclists,  
Footballers,  
Golfers,

## RYPONA

For Rheumatism, Lumbago, Sciatica,  
Sprains, &c.; also for Cuts, Wounds,  
Boils, and Skin Affections.

Of all Chemists and Patent Medicine  
Vendors.

Liniment, 1/1 & 1/8; Ointment, 7jd.

Wholesale of

**J. SANGER & SONS**, 2 Winsley Street, LONDON, W.

See page 46 (bottom folio) of "The Chemist and Druggist," December 1, 1894.

Athletes,  
and  
anyone  
liable to a  
Chill.

PROFITABLE EXTRAS FOR CHEMISTS.

## "MIXED PARCELS."

Every requisite for Smokers in One order. Maximum of profit—  
Minimum of trouble.

Send Postcard for Illustrated Price List (60 pages) free.

**SINGLETON & COLE**, BIRMINGHAM.

## KNEIPP—MALT—COFFEE OF THE KATHREINER COMPANY.

The best Breakfast Beverage. Invaluable for Invalids, Convalescents, and  
all delicate people. Strongly recommended for all nervous complaints.

Price 7/6 per dozen Pound Packets.

Agent for Great Britain—

**W. ERHARDT**, of 7 Bury Street, Bloomsbury, London, W.C.

## IRISH VELS, A. & J. WARREN,

In 50 & 100 doz. Casks.

IMPORTED BY

Wholesale Druggists and Methylated Spirit Makers,  
Makers of Essence of Rennet for Cheese.

Supplied in 40 and 20 gallon Casks and 10-gallon Tins, also in smaller  
packages, bearing their name.

**23 & 24 REDCLIFF STREET, BRISTOL.**

Chemists  
should  
try our new

**2d.**

Line.

## LAKE MILLAR'S INFECTION KILLER.

PRICE 2d. EACH.

Handsomely put up in Glass-top Cases.

Sample Case post free for 3/- of

**LAKE, MILLAR & CO.**, Manufacturers,  
Handsworth, BIRMINGHAM.

Thousands  
already sold.  
Repeat orders  
from every  
customer.

Give it a trial.

Money  
refunded with  
pleasure  
if you are not  
satisfied.

THE ASSOCIATION for the SUPPLY OF PURE VACCINE LYMPH,  
12 Pall Mall East, London, S.W.

SOLE AGENTS FOR

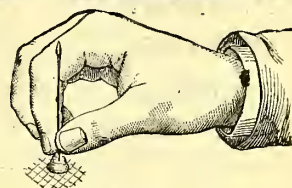
## DR. WARLOMONT'S CALF VACCINE.

Tubes, 2s. each Half Tubes, 1s. each. Pomade in Via's, 5s.

**HUMAN VACCINE** from healthy children only, microscopically examined, and source quoted.—Three Tubes,  
two-thirds full, 5s.; Tubes one-third, 1s. each. Tubes two-thirds full (same as those mentioned above, but without  
source), in quantities for export, £5 per 100 tubes. **PIN-POINTS** (uncharged), 1s. per doz. **VACCINE  
EJECTORS**, 1s. 3d. each, including Postage.

Office Hours, 10 to 4; Saturdays, 10 to 2.

P.O.O.'s (including Postage, and crossed London and Westminster Bank), with orders, payable to **EDWARD DARKE**, Secretary.



TRADE MARK, REGISTERED.

# BEECHAM'S PILLS

FOR ALL BILIOUS & NERVOUS DISORDERS,  
INDIGESTION, & FEMALE COMPLAINTS.

The demand is unprecedented, and Druggists will find BEECHAM'S PILLS the most Saleable  
Patent Medicine in the Market.

# BEECHAM'S COUGH PILLS

As a Remedy for Coughs in general, Asthma, Bronchial Affections, &c., these Pills stand unrivalled.

In Boxes, 9½d., 1s. 1½d., and 2s. 9d. each.

# BEECHAM'S TOOTH PASTE.

All Chemists, Druggists and Stores should stock this new article, which is well advertised, and is a really good  
speciality. It is put up in collapsible tubes, Retail Price, 1s., and can be obtained from any Wholesale House.



# POTTER & CLARKE'S

## SEEDS IN PACKETS.



### A MARVELLOUS RESULT.

Mr. G. SWAIN, of Leeds, writes:—"I had the 'Winged Lion' Flower Seeds last year, and the *result was marvellous*; in fact, they were better than many expensive prize collections. I was highly satisfied with them."

**BEST QUALITY ONLY IN ALL PACKETS.**

### TERMS—

|              |                           |              |
|--------------|---------------------------|--------------|
| 1d. PACKETS  | ON                        | } <b>6/-</b> |
| VEGETABLE    | $\frac{1}{2}$ gross Cards |              |
| AND          | OR IN                     |              |
| FLOWER SEEDS | 2 gross Cases             | PER GROSS    |

WAREHOUSE and OFFICES—

Artillery Lane, Bishopsgate, LONDON, E.

MANCHESTER:

54 Great Ancoats Street.

## QUICK SELLING LINES.

### HARMLESS HEADACHE POWDERS.



Our recipe is different from any other on the market and is far superior to the most lavishly advertised Headache Powders now before the public. Being put up in plain envelopes, there is no need of the Patent Medicine Stamp.

**THEY HAVE AN ENORMOUS SALE AND GIVE EVERY SATISFACTION.**

On  $\frac{1}{2}$ -gross Cards,  
Price 7/- per gross.

In boxes containing 20 powders,  
Price 9/- per dozen.  
(As per illustration.)

### CORN AND WART PAINT.



This preparation has a splendid and increasing sale and bids fair to be the most popular preparation of its kind. It is put up in Actinic blue bottles, with boxwood top corks and brushes attached, and neatly packed on 1-doz. cards.

4d. Bottles ... 2/8 per dozen.

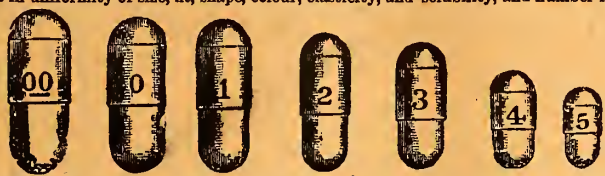
**POTTER & CLARKE,** WHOLESALE & EXPORT  
DRUGGISTS,  
5, 6, and 7 Raven Row, Artillery Lane, LONDON, E.



**MAY, ROBERTS & CO., LONDON,**  
Have been appointed **EUROPEAN AGENTS** for  
**THE WARREN CAPSULE CO.,**  
MANUFACTURERS OF  
**EMPTY GELATINE CAPSULES,**  
Corner Sixteenth and Baker Streets, DETROIT, MICH., U.S.A.

The Capsules made by us are perfect in uniformity of size, fit, shape, colour, elasticity, and solubility, and number from 5 the smallest, to 00 the largest.

Our Improved Process of manufacture and inventions of New Machinery enable us to put our goods on the market unexcelled, and at a less cost than has hitherto been done. They are made of the very finest French Gelatine, and will stand in any climate.



Seven sizes, in Boxes of 100. Per box, **4d.**; per doz. boxes, **3s. 9d.**

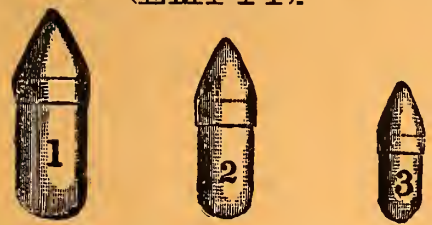
**CAPACITY.**

The approximate capacity of empty capsules will vary in the weight of different samples of the same powdered drug or alkaloid, according to the degree of compression exerted in filling.

SEE ANNEXED TABLE.

| Size                      | 00 | 0  | 1  | 2 | 3 | 4  | 5  |
|---------------------------|----|----|----|---|---|----|----|
| Quin. Sul. . . . . gr.    | 8  | 6  | 4  | 3 | 2 | 1½ | ¾  |
| Quin. Mass. . . . . gr.   | 16 | 12 | 8  | 6 | 4 | 3  | 1½ |
| Pulv. Ipecac. Oe. . . gr. | 12 | 8  | 6  | 4 | 3 | 2  | 1½ |
| Pulv. Aloes . . . . . gr. | 10 | 7  | 5  | 4 | 3 | 2  | 1  |
| Bism. Sub Nit. . . . gr.  | 20 | 14 | 10 | 8 | 6 | 4  | 2  |
| Sallcin . . . . . gr.     | 10 | 7  | 5  | 4 | 3 | 2  | 1  |
| Pulv. Rhei . . . . . gr.  | 12 | 8  | 6  | 4 | 3 | 2  | 1  |
| Acid. Saliyl. . . . . gr. | 8  | 6  | 4  | 3 | 2 | 1½ | ¾  |

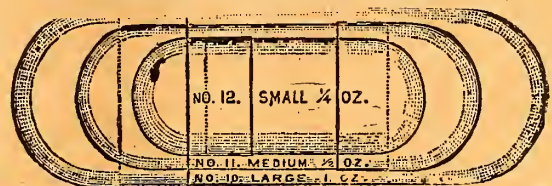
**RECTAL SUPPOSITORY CAPSULES (EMPTY).**



**THREE SIZES.**

In boxes containing 100, one size, per box ... 4d.  
" " " per dozen boxes 3/9

**CAPSULES (VETERINARY).**



For administration to horses and cattle, or may be filled with absorbent cotton saturated for vaginal medication.

- No. 10, large (ounce), in boxes of 10, per dozen boxes .. 8/-
- No. 11, medium (½-ounce), in boxes of 10 .. 6/6
- No. 12, small (¼-ounce), in boxes of 10 .. 5/6
- No. 10, bulk, per 1,000 .. 52/-
- No. 11 .. 47/-
- No. 12 .. 42/-

We supply the medium size in absence of specification.



**"MAY-ROBERTS" WATER BATH (REGISTERED).**

This Water Bath will supply a long-felt want amongst Chemists and Perfumers where small quantities of materials have to be dealt with.

The old form of Water Bath necessitates the use of a second vessel for pouring the melted Pomade Cream, or other substance into the bottles or jars in which they are sold. In the "MAY-ROBERTS" Water Bath the earthenware bowl can be lifted out of the tin containing the boiling water, the process of cooling being thereby very much expedited, and the contents can be poured into the bottles or jars direct from the bowl. The Bath is also supplied with an earthenware cover.

1-PINT .. 3/- each. 5-PINT .. 5/6 each. 10-PINT .. 9/6 each.

**MAY, ROBERTS & CO., LONDON E.C.**



**BUYERS ARE CAUTIONED TO SEE THAT THEY GET THE GENUINE DR. JOHN HOOPER'S PILLS,**

Which may be known by the Name of the Inventor being on the Government Stamp.

**MAY, ROBERTS & CO., LONDON, E.C.**  
**AMERICAN BUYERS** are particularly Cautioned.

1,000 Handbills, with Name and Address, sent Carriage Paid on receipt of Business Card.



*Apollinaris*

*Hunyadi Fános*

*Friedrichshall*

NATURAL MINERAL WATERS.

Single Cases Delivered in London, and, at the Same Prices,  
Carriage Paid, to any Railway Station.

THE APOLLINARIS COMPANY, LIMITED, 4 Stratford Place, Oxford Street, London, W.

**Cadbury's Cocoa** ABSOLUTELY PURE  
therefore BEST.

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure."—*The Analyst*.

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

SAFE  
TEETHING.

DO NOT LET YOUR CHILD DIE!

Fennings' Children's Powders Prevent Convulsions; are Cooling and Soothing.

**FENNINGS' CHILDREN'S POWDERS.**

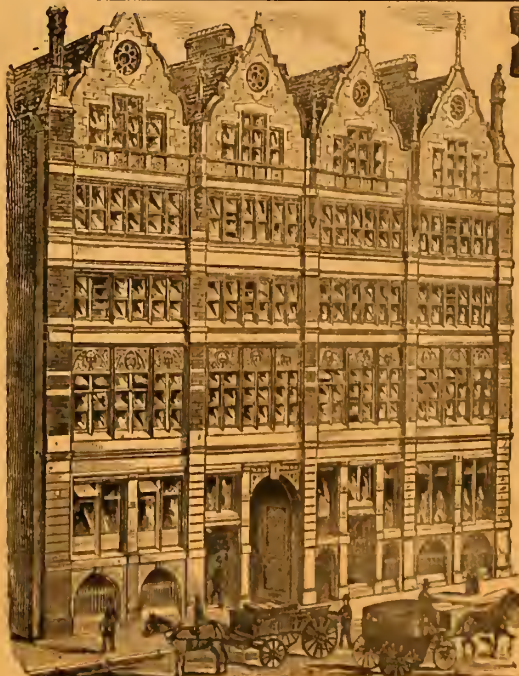
For Children Cutting their Teeth, to Prevent Convulsions.

Sold in Stamped Boxes, at 1s. 1d. and 2s. 9d. (great saving), with full Directions.

Do not contain Calomel, Opium, Morphia, nor anything injurious to a tender babe.

Chemists, by applying to the Patent Medicine Houses and Wholesale Chemists, can obtain, free of any charge, a supply of "FENNINGS' EVERY MOTHER'S BOOK," for Counter distribution.

SAFE  
TEETHING.



**S. MAW, SON & THOMPSON**

QUARTERLY

**Price Current**

AND

**BOOK OF ILLUSTRATIONS**

CONTAINING NEARLY

**5,000 ENGRAVINGS**

OF  
**SURGEONS' INSTRUMENTS**

AND

**DRUGGISTS' SUNDRIES**

OF ALL KINDS

MAY BE HAD ON APPLICATION ENCLOSED BUSINESS CARD.

Forwarded Post Free to all parts of the World.

**S. MAW, SON & THOMPSON**

7 to 12 ALDERSGATE STREET, LONDON, E.C.



# The Chemist & Druggist

## SUPPLEMENT.

Businesses Wanted  
Businesses for Disposal  
Premises to Let  
Auction Sales

SATURDAY, APRIL 13, 1895

Partnerships  
Situations Vacant  
Situations Wanted  
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

## THE ADVANTAGES

Of advertising in this Supplement should be kept in mind by Transfer Agents and Valuers; by Wholesale Houses and Contract Agencies; by Pharmacists desirous of selling Businesses, or of buying them; by those who want Assistants, or who are seeking Situations. For all such it is the medium which gives the smartest results, and its unique method of circulation has secured for it a surprising popularity. Space for displayed advertisements can be obtained on application to the Publisher, 42 Cannon Street, London, E.C.

## CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

### CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£500.—LONDON, W. (Death Vacancy).—Prescribing and Retail Business; old-established; situate in a main thoroughfare; returns between £400 and £500 yearly; house has 6 rooms; detached warehouse, &c.; rent moderate, on lease; price about £400.

2.—£800.—ESSEX.—Middle-class Retail and Prescribing Business, situate in a middle-class residential neighbourhood; excellent position; returns £800 yearly; nicely fitted shop; double-fronted, comfortable house, private entrance; price £600.

3.—£800.—LONDON, S.E.—Dispensing, Prescribing, and Retail Business; excellent position; returns nearly £800 yearly, *very good profits*; well-fitted shop and convenient house, on lease; price £700; the full investigation of the business invited by a bona-fide purchaser.

4.—£400.—LONDON, W.C.—Dispensing and Retail Business; present returns (nucleus) £400, with *very good profits*; the shop has single front; capital business position; expenses small; price about £250.

5.—£600.—LONDON, N.W.—Retail and Dispensing Business, chiefly cash; returns £600 yearly; single-fronted well-fitted shop, convenient house, on lease, at moderate rental; price £450 or open to an offer.

6.—£400.—LONDON, W.—Retail and Dispensing Business; situate in a very busy middle-class neighbourhood; the business has been established many years, but has of late been indifferently managed; returns present rate nearly £400; well-fitted shop and commodious house; greater part of house let off; valuation of stock and fixtures only required.

7.—£600.—CITY (near).—Middle-class Retail Business; situate in a main thoroughfare; position good; returns, under management, £600; can be greatly increased by personal attention; well-fitted shop, convenient house, garden attached; price £400; part can remain.

8.—£1,300.—ON THE BANKS OF THE UPPER THAMES.—Situate in a very pretty locality, within easy distance of London; Mixed Business, no heavy trade; well established; double-fronted shop, large stock; house contains 8 rooms, private entrance; good garden, out-buildings, &c.; returns average about £1,300 yearly, easily increased; *very good profits*; terms, small goodwill, stock and fixtures at valuation.

9.—£1,100.—MIDLAND COUNTY TOWN.—Good middle-class easily worked Business, Dispensing and Retail; returns £1,100, *very profitable*; nicely-fitted shop, and ample working stock; vendor, who is retiring from business, will grant a lease; full particulars on application; price about £750, or offer entertained.

10.—£700.—SURREY.—For disposal, Retail, Prescribing, and Dispensing Business, situate in a main street; capital position; returns £600 and £700 yearly; *good profits*; convenient house, in good repair; moderate rent, on lease; price £600, or open to an offer.

11.—£1,000.—GLOUCESTERSHIRE.—An old-established good-class Business (Mixed); returns present rate between £900 and £1,000 yearly; the house is large and convenient, held on lease at moderate rental; valuation terms can be arranged. Full particulars on application.

12.—£400.—HANTS.—Middle-class Retail Business, situate in a good market town; returns present rate about £400, increasing; the shop has single front, nicely fitted, and ample working stock; convenient house, private entrance; price £250, part can remain.

13.—£1,300.—WESTERN COUNTY.—For disposal, old-established Mixed Business; returns about £1,300 yearly; *very good profits*; double-fronted shop, well fitted; commodious house, on lease; rent low; price £900, or valuation terms can be arranged.

14.—£600.—SOUTH COAST.—For disposal, first-class Dispensing Business, situate in one of the principal thoroughfares in a fashionable town and health resort; returns average £600 yearly, and every facility for a considerable increase; comfortable house, warehouse, &c.; price £500; full particulars on application.

Particulars of any of the above will be furnished on application.

**N.B.—NO CHARGE TO PURCHASERS.**

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION. Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

**SPECIAL NOTICE.**—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.



# F. J. BRETT

Valuer, 60 St. Stephen's Road, LEICESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE. NO CHARGE TO BUYERS.

STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR CASH.

£1,000 returns.—LONDON.—Light Retail and Dispensing; good specialties; price £800. £800 returns. LEICESTER.—General Retail, Prescribing, &c.; capable of doing much more; price about £700. £600 returns.—STAFFS.—Mixed Retail; plenty of scope for local Wholesale; valuation about £400. £600 returns.—BIRMINGHAM.—Busy thoroughfare; good position for pushing trade; valuation about £300. £500 returns.—MON.—Pretty locality; price about £400. £1,000 returns.—General Retail and Shipping; rapidly-increasing Southern seaport; price £320.

## BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

### NOTICE TO VENDORS.

Having been for the past 25 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers the largest experience of any in the Trade. VENDORS placing their Businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

### BUSINESSES WANTED.

We have at the present time a large number of clients desirous of purchasing Businesses in both Town and Country, having cash at command from £500 to £3,000. Gentlemen wishing to dispose of their Businesses should communicate with us at once. We are often enabled through our large connection to effect a transfer in a few days, and without a single advertisement being necessary. Strict confidence guaranteed, terms sent on application. We shall have much pleasure in referring intending vendors to 11 of our clients whose Businesses we sold last month.

### VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

## THOMAS TOMLINSON & SON

Chemists' Consultants, Investigators, Transfer Agents, and Valuers.

9 NEW CANNON ST., MANCHESTER,  
FORTY-FOUR YEARS' EXPERIENCE.

**BUSINESS WANTED.**—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bona-fide buyers without publicity and the annoyance of answering "curiosity" applications. No charge made unless Sale is effected.

**INTENDING PURCHASERS** will do well to call at our offices and place their names with us, with particulars as to requirements and capital at command, as, having an extensive list of Businesses for disposal, we are able to judge as to adaptability, and to furnish those only suitable. Applicants unable to see us may have our candid opinion by post, without any charge.

NO CHARGE TO PURCHASERS  
Telegraphic Address—"TOMTOM."

## JUDD & MANNERS,

(SUCCESSORS TO CROCKER & CO.).

Trade Valuers, Transfer Agents, & Accountants,  
76 CANNON ST., LONDON, E.C.

(ADJOINING CANNON STREET STATION).

**HOME COUNTY.**—Old-established Country Retail, returning, at good prices, £1,200 yearly; large and convenient premises, well situated in the centre of a busy market town; price £1,050, or valuation throughout.

**KENT.**—Old-established Family trade; returns £2,100; price £2,000; net profit £700; most desirable residence, with large garden; held on long lease, at moderate rental.

**GLOUCESTERSHIRE.**—First-class Country Business; returns over £1,000 yearly; large sale of own Specialities; rent £45; present hands 21 years; single-fronted shop, good house; pleasant locality; price £900.

**NORTH OF ENGLAND.**—High class Retail and Dispensing; established 35 years; very handsome double-fronted shop; returns £1,450; valuation of goodwill and effects will be accepted.

**NORTH LONDON.**—Cash Retail, Dispensing, and Prescribing trade; returns £850; price £900; double-fronted shop, well fitted, and heavily stocked; fairly good house and garden.

**LONDON, S.E.**—Light Retail and Dispensing trade; returns over £600 yearly under a manager; price £200; a bargain.

**LONDON (West-end).**—High-class Dispensing Business, very old-established; returns £1,300, very profitable; price £300 goodwill and valuation; we strongly recommend this as a sound and reliable investment.

**BIRMINGHAM.**—An old-established Cash Retail and Prescribing trade; returning at full prices £450 a year, under management; price £225.

**NEAR LONDON.**—Light Retail, Prescribing, and Dispensing Business, with Dentistry; returns £2,000, very profitable; price about one year's returns.

**MIDLANDS.**—Retail and Dispensing, returning over £500; price £300.

**YORKSHIRE.**—Cash Retail, Dispensing, and Prescribing trade; returns £1,500; price £1,100, or valuation terms can be arranged.

**SURREY.**—Light Retail and Prescribing trade; returns £400; price £200; good position in main road.

**SURREY.**—Owing to serious illness of Proprietor; a most desirable Business; returning £800; price £600; worth much more; prompt action necessary.

### VALUATIONS PERSONALLY CONDUCTED.

NEXT DOOR TO  
**BOW**  
**CHURCH.**  
**FERGUSON & OSBORNE**  
ON THE  
**AXLE**  
OF  
**THE WORLD.**

Chemists' Valuers, Transfer Agents, Partnership Negotiators, Patent and Trade Mark Registrars.

### BUSINESSES FOR DISPOSAL.

Southsea, £650; Accrington, £220; Liverpool, £250, £700; Sussex, £300; Leicester, £650, £800; London, £400, £120, £525, £225, £700, £425; Birmingham, £100, £750; Wales, £450; Partnerships, £1,000, £2,000; Staffordshire, £10 and valuation; Wigan, £200; Durham, small Business at valuation.

### BUSINESSES WANTED.

South or South Midlands, £1,000, £400; South Wales, £800; West of England, £300 to £1,000; Cheshire or borders North Wales, £500 to £800.

Clients are requested to favour us with a personal interview when possible.

NO CHARGE TO PURCHASERS.

ALL VALUATIONS are conducted by a member of the Firm.

56 CHEAPSIDE, LONDON, E.C.



## SITUATIONS OPEN—Cont.

**WANTED**, at once, Junior or Improver, for Light Retail and Dispensing business at Brighton; indoors. Apply, stating age, salary required, &c., to "Doctor," c/o 32 Bond Street, Brighton.

**IMMEDIATELY**, an outdoor Assistant, as Counterman in a brisk ready-money business. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug Stores, Worcester.

**SOUTH COAST**.—Energetic Assistant wanted (outdoors), with General and Store trade experience; Minor man preferred. State usual particulars and send photo to Bishop's Drug Company, Folkestone.

**JUNIOR**, about 21, required by beginning of May for Surgeon's Light Retail; ample time for study. Apply, giving usual particulars and references, to C., Normand Lodge, West Kensington, W.

**SEASIDE**.—Junior (outdoors), Minor qualification, to manage a small Branch; good reference as to ability and character; enclose carte and state salary. J. V. Mainprize, Central Pharmacy, Bridlington Quay.

**AT** once, an Assistant, under 30, for Country business; good references essential. Apply, stating age, height, references, and salary required, A. K. Messrs. Maw, Son & Thompson, 11 Aldersgate Street, E.C.

**ASSISTANT**, about 30, qualified, for a high-class Colonial business; passage paid; salary progressive. Apply, with full particulars, to "Assistant," c/o B. G. Lennon & Co., Limited, 14 Bunhill Row, London, E.C.

**DISPENSING Chemist**.—Vacancy at the Stores of the Birmingham Household Supply Association (Limited); young man of good address; good references indispensable. Apply to the Manager, by letter.

**ASSISTANT**, about 24, for end of April; good Dispenser and used to making Pharmaceutical preparations; liberal salary; indoors. Apply, personally preferred, Frost & Harrison, 3 Eltham Road, Blackheath, S.E.

**REPRESENTATIVE** required for the North of England and Scotland to call on Mineral Water Manufacturers and Brewers; salary and commission. "Ustum," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, a qualified Assistant; indoors; must have first-class references and be a good Prescriber. Apply (in first instance), stating experience and salary required, to Smith & Sons, Wholesale Druggists, Norwich.

**PARIS**.—An Assistant, of thorough business habits and gentlemanly address, tall, is required in a first-class establishment; a person speaking French preferred. Please send all particulars to A. B., poste restante, No. 35, Paris.

**TRAVELLERS** having connection with Chemists, Seed Merchants, Gilmen, &c., in Wales, Scotland, and Ireland, required to sell first-class Sheep Dips and Disinfectants on commission. Apply, A. Z., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**THOMAS G. STONHAM & SON**, Maidstone, require a qualified Assistant, aged about 24; must have had experience in good-class Dispensing and Retail. Apply by letter, stating full particulars, age, height, and salary expected; enclose photo (to be returned).

**WANTED**, a qualified Assistant, with a knowledge of Store trade; also able to Extract teeth. Apply, stating age, height, salary required, with photo (to be returned), indoors, Lakeman, Chemist, Leytonstone; references must be good; permanency for suitable man.

**WANTED**, a Manager for a first-class Provincial Scientific Apparatus business; he must have had good experience, also a knowledge of Chemistry and Photography. Address, stating age, experience, and salary required, "Scientific," c/o 163 Queen Victoria Street, London.

**AT** once, an energetic and gentlemanly Manager (indoors), not under 25 years of age, to develop a Light Retail and Dispensing Business on Cash system; liberal terms to a suitable gentleman. Apply, with references, &c., to G. Coverdale, Ph. Chemist, 23 Parliament Street, York.

**JUNIOR** Assistant, about 21 (indoors), Light Retail and Dispensing business. Please state in first communication, age, height, previous experience, salary required; if convenient enclose carte (to be returned), or arrange for personal interview. J. Findlay, Chemist, 40 King Street, Plymouth.

**WANTED** immediately, Junior Assistant; must hold Minor qualification, and be thoroughly trustworthy; Thursday half-holidays, two hours duty Sunday mornings; knowledge of Dentistry preferred. State age, experience, reference, and salary expected (outdoors), to Douthwaite, 84 Ellesmere Road, Sheffield.

**MANUFACTURING**.—Wanted a man holding the Minor qualification, with experience of Wholesale Manufacturing, and Druggists' Sundries Work; age about 35; to a capable man a good salary will be paid. Apply, by letter, to "Chemist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, immediately, a qualified Assistant; one desiring a permanency preferred. Apply personally, morning or evening, at 49 Wells Street, Oxford Street, W.

**JUNIOR** for good-class business; fair Dispenser; time can be given for reading; comfortable home. State salary expected, age, height, and, if convenient, enclose photo. Simpson, Chemist, Maidstone.

**WANTED**, an unqualified Assistant, at once, about 22; outdoors; permanent situation to suitable man used to Mixed Country business. State age, height, and salary, and enclose photo, to M. Herrod, Chemist, Wisbech.

**ROYAL LONDON OPHTHALMIC HOSPITAL**, Moorfields, E.C.—Assistant Dispenser wanted immediately; salary £50 per annum, with luncheon; applicants must state age and give full particulars as to capabilities, &c. Apply to the Secretary.

**MANAGER**, at once, for Branch; qualified and experienced; knowledge of Photography desirable; good references indispensable. Apply, with carte, if possible, stating age, salary required (outdoor), &c., to M., c/o Evans, Lescher & Webb, Bartholomew Close, London, E.C.

**AT** once, a Junior Assistant for a brisk Cash business; indoors; quick and good at counter; the usual early evening each week; 1½ hour off each morning; half holiday every month; Sunday duty every fourth Sunday. Please give full particulars of experience, age, references, and salary required, to A. B., 50 Lorne Road, Stroud Green, N.

**LABORATORY**.—One or two smart young fellows wanted, who know their business and have been accustomed to the manufacture of Pharmaceutical preparations; moderate salary at first, but good prospects to men who don't mind work and can use their brains as well as their hands. Apply, with full particulars, Bleasdale (Limited), York.

**RANGOON**.—Chemist's Assistant required, holding Minor qualification; age not to exceed 24 years; must have had good General experience; salary 175r. per month first year, 200r. per month second year, 230r. third year, 275r. fourth year; outdoors; four years' agreement; second-class passage paid out. Address, with full particulars, W. B., c/o Street & Co., Cornhill, London, E.C.

**WANTED**, for a good-class Retail and Dispensing business, an Assistant (single), aged from 26 to 30; must be qualified, and competent to take charge in the absence of the principal; satisfactory references will be required. Apply in first instance by letter, giving full particulars as to experience, &c., to W. M. B., c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, E.C.

**WANTED**, a qualified Assistant about 24, to take charge of a business; unfurnished apartments only found. No board; state salary (commission allowed), age, height, whether able to Extract Teeth or not; one who has a knowledge of Photographic Materials and the Aërated Water trade preferred. Send photo and references to Rickarby, Pharmaceutical Chemist, 8 Chapel Street, Stratford-on-Avon.

**WANTED**, for a Dispensary in Singapore, Straits Settlements, an Assistant, about 22, who has, in addition to ordinary Dispensing knowledge (qualification no object), a thorough practical knowledge of making Aërated and Soda Waters and the working of a Gas engine Machine; engagement 3 years; rising salary and commission. 218/19, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**INDIA**.—Qualified Assistant required for Chemist's and General business; must be young, single, temperate (abstainer preferred), and energetic; 4 years' agreement; second-class passage paid out, and free board and lodging provided; salary per calendar month—first year, 125r.; second year, 150r.; third year, 175r.; fourth year, 200r. Apply stating full particulars, to "Quetta," c/o Messrs. Street & Co., Cornhill, London, E.C.

**WANTED**, at the Western Dispensary, Rochester Row, Westminster, S.W., a Dispenser, who must hold the Minor qualification of the Pharmaceutical Society; his services are required from 1 to 6 daily, Sundays excepted, and from 7 to 8 on Wednesday evenings; salary 30s. per week. Applications to the Secretary, at above address, on or before April 17; non-residential candidates must attend personally on Thursday, April 18, at 5 P.M.

**SANITARY** Inspectorships.—Numerous vacancies; good salaries; permanent posts for reliable men; all wanting appointments as Inspectors or desiring Sanitary Diploma for business purposes should obtain Sanitary Institute (London) Certificate; Postal Course now commencing for London and Provincial Exams.; any man of average ability can pass; have had over 150 successes, and fully half had no previous knowledge of sanitary matters. Apply, Robt. H. Mushens, sanitary Science Teacher, Sunderland.

## SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

**LOCUM**; aged 40; qualified; good references. F. G. Shrimpton, 6 Grove Street, Oxford.

**AS** Manager; qualified; Extractor; 40. "Statim," 53 Middlewood Street, Gorton, Manchester.

**ASSISTANT**; time for study preferred; trustworthy. "Statim," 106 King's Cross Road, W.C.



## SITUATIONS WANTED—Cont.

**JUNIOR**; 20; 5 years' experience; large town preferred. S., 61 Frogmore Street, Abergevenny.

**LOCUM-TENENS**; aged 28; disengaged; Extractor. 2 Horton Street, Lewisham, London, S.E.

**WHOLESALE** or Export, Wet or Dry; experienced. Forbes, The Village, Tarland, Aberdeenshire.

**ASSISTANT**; 22; 7 years' experience; excellent references. E. C., 38 Crofton Road, Peckham, S.E.

**NO SALARY**.—Lady as Improver. X. Y. Z., c/o Sub-librarian, Literary Society, Tunbridge Wells.

**30s.** Weekly, and 3rd class return fare; Locum; qualified. 36 Wrexhamfechan, Wrexham.

**ASSISTANT**; 26; experience London and North; references. Crodale, Mitchell Street, Oldham.

**ASSISTANT**; 22; best London Store experience. Williams, 1 Louvain Road, Clapham Junction.

**ASSISTANT**; 24; London or Suburbs. 217/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DISPENSER** to Surgeon; qualified; married. "Xenophon," 201 County Road, Walton, near Liverpool.

**AS** Locum-Tenens; terms 5s. per day and expenses. O. H. Snell, 199 Church Street, Albion Road, Stoke Newington, N.

**ASSISTANT**, Manager, Locum, or Part-time; varied experience. T. J. C., 13 Guildford Street, Farringdon Road, E.C.

**QUALIFIED**; aged 23; disengaged. "Illford," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT**; unqualified; indoors; Yorkshire or Midlands; 6 years' experience. "Cortez," 5A Wood Street, Mansfield.

**ASSISTANT**; experienced; unqualified; Store or otherwise; married; 36. 35 Canada Street, Newcastle-on-Tyne.

**JUNIOR**, where another is kept preferred; height 5 ft. 7 in.; over 3 years' experience. Williams, 60 Woodville Road, Cardiff.

**MANAGER** or Senior; aged 38; qualified; married; Dentistry; Liverpool preferred. "Minor," 50 Berry Street, Liverpool.

**MANAGER**, Locum, or Assistant; married; abstainer; Extractor; Stores not objected to. B., 17 Stafford Road, Brixton, S.W.

**IMPROVER** or Turnover Apprentice wanted for a quick retail store trade. References to Beech, Chemist, Ladywood, Birmingham.

**ADVERTISER**, qualified, seeks partial or full employment in a healthy locality; or Locum. X., 17 High Street, Canterbury.

**MANAGER**, Branch; in or near London; experienced; reliable; 40; disengaged May 12. "Mili," 120 Seymour Street, N. W.

**MANAGER**; 20 years' experience; qualified; tall. "Helium," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MEDICAL**.—Gentleman, 40, full curriculum, desires permanent or temporary berth; out or in doors. "Medical," Darnall, Sheffield.

**MANAGER**; 30; married; Store trade; good experience; London or suburbs preferred. O. T., Drug Stores, 116 Judd Street, W.C.

**LOCUM** or Manager; qualified; excellent references; Photographist, &c. Address, "Minor," Manor Farm, Bishop Sutton, Aylesford, Haunts.

**MANAGER**; married; qualified; aged 28; 12 years' experience; disengaged April 9th; good references. Ferguson, 114 King Street, Southsea.

**IMMEDIATE**.—Assistant; 29; first-class London experience; good Counterman; permanency. M., 102 Harwood Road, Wallham Green, S.W.

**JUNIOR** Assistant; aged 20; height 5 ft. 9 in.; 6 years' experience; disengaged after Easter; Manchester or London. Address, M. H., 207 Alfreton Road, Nottingham.

**TRAVELLER**.—Provincial Representative of first-class London Drug House will shortly be open to accept another engagement. Address, 189/18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

**MANAGER** or Senior Assistant; outdoors; qualified; 29; thoroughly experienced and reliable; disengaged. "Chemist," 129 Camden Street, N.W.

**JUNIOR** Assistant; tall; highest reference. Morgan, 83 Boundary Road, St. John's Wood.

**ASSISTANT**; 8 years' good experience; West of England preferred; disengaged. S., 5 East Street, Dorchester.

**JUNIOR**; 21; 3 years' good General experience; height 5 ft. 8 in. Davies, 79 Lorrimer Road, Walworth, S.E.

**JUNIOR**; 24; 5 ft. 10 in.; excellent reference; abstainer; disengaged. "Salol," 27 Gollington Street, St. Pancras, N.W.

**MINOR**, disengaged, requires Part-time or Permanency; London experience. Jones, 55 Gloucester Street, Belgravia.

**ASSISTANT** or Locum; 35; for 2 or 3 weeks. Apply, 218/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**IMMEDIATE**; English Assistant, 30, tall, good Dispenser and Counterman, speaking also French, Italian, German, well up in English and Continental trade, requires situation. Hill, Grenouillart, 25 Rue Copernic, Paris.

**TO** Wholesale Druggists and Surgical-instrument Makers.—Advertiser, qualified in Medicine and Surgery, desires the post of Traveller to a Wholesale firm of Druggists or Surgical-instrument Makers; can speak French and Spanish, and would have no objection to travel and represent an English house on the Continent; total abstainer; liberal terms expected. Address, in first instance, "Fidelity," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## MISCELLANEOUS.

*Special charges are made for Advertisements under this heading, which can be obtained on application.*

**TO** Chemists.—A fortune can be realised by a little judicious advertising; only offered to one. Full particulars from "Fides," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**A** CHEMIST who is opening new premises requires good second-hand Mahogany Fittings, Recess-labelled Bottles, Ointment-jars, &c.; must be in good condition; state fullest particulars and lowest price; would purchase entire fittings if suitable. Sherrieff, Paignton, South Devon.

**WALL-FIXTURE**, 12 ft. long by 9 ft. high, containing 60 mahogany drawers, with gold labels and glass knobs, polished-pine lockers below and shelving above, surmounted by neat cornice, £16; 5-ft. mahogany bent-glass counter-case, velvet lined, with display back and serving-tray, £5; high-class dispensing-screen, mahogany and plate-glass, bevelled-edge mirrors, highly ornamental, only £9; estimates free. Matthews, 14 Manchester Street, Liverpool.

**HAVING** purchased the entire stock of a Chemists' Shop Fitter, consisting of counters, wall, counter, and centre cases, desk and cases, ranges of drawers, dispensing-screens, carbays, specie-jars, shop-rounds jars, window-enclosures, &c., &c., same will be sold at 33½ per cent. off stock-book prices; 12-ft. run of drawers, glass labels, shelving and cornice over, lockers under, £7 5s. Philip Josephs, 54 Old Street, City Road, London, E.C.

**CHEMISTS'** 6-ft. Mahogany Dispensing Screen, with mirror centre, marble slab, and 6-ft. under-counter with sponge-basket centre, all plate-glass doors, 121; also 12-ft. range of 60 Mahogany-fronted Drawers, glass knobs, glass labels, own lettering, 71. 5s.; if locks, shelves, cornice complete, 127. 5s.; 6-ft. Bent Plate-glass Counter-case, display shelves, &c., 92s. 6d.; 6-ft. Mahogany Dispensing-case, plate-glass doors, tablet on top, 87s. 6d.; Upright Cases, with mahogany desk at back, 45s.; Pink Ointment Jars, Shop-rounds; estimates free. Mills, Shop Fitters, Showcase Manufacturers, 203 City Road, London, E.C.

**FRENCH** Pharmaceutical Chemist, aged 35, active, occupying large house, with extensive stores and cellars, in Boulogne, wishes to communicate with an English Wholesale house, dealing in Drugs, Chemicals, or Pharmaceutical Specialties, desirous of utilising the advantages which may result from the fabrication on French territory of certain Chemical Products, Medicaments, or Patent Medicines; he would be prepared to superintend fabrication, manage branch or depot, and attend to reforwarding of goods for France and the Continent generally; first-class references and security. Address, in English or French, Orange & Taylor, Boulogne-sur-Mer.

## PRELIMINARY AND MINOR.

**STUDENTS!** Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Caesar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

**TO EMPLOYERS, COMPANY DIRECTORS, &c. THE LAW GUARANTEE AND TRUST SOCIETY, LIMITED, GUARANTEES FIDELITY.**

Send for complete Prospectus, containing Balance Sheet, Copy of Policy, &c. Head Office: 49 CHANCERY LANE, LONDON, W.C.



**BUSINESSES FOR DISPOSAL.***3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**S** MALL Retail and Prescribing Business in S.E. district to be sold; returns between £5 and £6 weekly; rent £35 per annum, £12 let off; price to immediate purchaser for cash, £150. Address, in first instance, to S., 22 Park Road, West Dulwich, S.E.

**£75** will purchase genuine Business in good locality of leading town on South Coast; returns (under Assistant) £4; easily doubled; shop and fittings in good order; must be sold at once. Address, "Statin," c/o Herrings & Co., 40 Aldersgate Street.

**G** ENUINE going Mixed Business, well stocked; excellent premises; good house; aristocratic neighbourhood; every opportunity for enterprise; country town, near London. Address, "Solus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**I** N a small Country Town, near Bath; a Light Retail and Prescribing Business; returns £400, capable of development; rent £35; excellent house, large and well-stocked garden; same hands many years; price £250, or valuation. "Town," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**I** NGLETON, Yorks.—Summer health resort; a Light Retail and Prescribing Business; returns over £300 last year; net profit £130; rent £13; no opposition; about £220; must sell, bought a larger concern; been opened only 2½ years. 209/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**9 MILES** from London.—An unopposed Light Retail, Dispensing, and Prescribing Business; returns £14 weekly, of a very profitable character; net profit £250 per annum; rent £40; good house; price £400; buyers will find this worth looking into. 218/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**B** IRKENHEAD.—£150; Light Retail and Prescribing Business; returns £371; full prices except patents; capable of much increase; low rent, good house, busy road; shop is well fitted in mahogany, well stocked; bargain energetic young man. "Birkenhead," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**U** NUSUAL opportunity for a young man with small capital.—A Chemist's Business (must be sold through illness); returns about £250; capable of increase; profits good, house good; several valuable preparations; no reasonable offer refused. Apply, "Chemist," Walker, Troke & Co., 65 Bath Street, City Road, London, E.C.

**A** GOOD Dispensing, Prescribing, and General Retail Business for sale; best position main street of large town in Eastern Counties; shop well fitted and stocked; owner retiring; at valuation of stock and fixtures; as this is bonâ fide only buyers need apply. Apply, "Cxb," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£100** (part can remain).—Genuine Dispensing, Prescribing, Light Retail, taking £8 a week, principal did £12, and that can easily be done again; good prices for everything; superior house and premises; low rent; main thoroughfare; a great bargain; vendor must sell, having another place; only wants seeing. Apply, on the premises, "Chemist," 135 Lawrence Hill, Bristol.

**SALES BY AUCTION.***3s. 6d. for 50 words; 6d. for every 10 words beyond.*

In the High Court of Justice: Chancery Division.—By order of Mr. Justice Stirling.—Re Bruce & Co. (Limited), in liquidation, St. George's Hall, Melmoth Place, Walham Green, S.W.—Important Sale of the Lease, Plant, Machinery, and Fixtures, and also the stock, comprising tinned soups, beef tea, essences, and gelatine, in all about 10,000 gross, weighing machines, copper, tin, and enamelled pans, office furniture, and numerous effects, which will be sold by Auction by

**MESSRS. BOXTON & PEGRAM**, at the ST. GEORGE'S HALL, as above, on WEDNESDAY, April 10, 1895, at 12 noon. Catalogue, &c., can be had of Messrs. Hatchett-Jones & Co., Solicitors, 47 Mark Lane, E.C.; of Messrs. Ogil & Co., Accountants, 90 Cannon Street, E.C.; or of the Auctioneers, Broadway, Walham Green, S.W.

**FOR SALE.***3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**A** BARGAIN.—Chemist's Stock, with fittings, counters, outside lamp, drawers, &c.; must be cleared out at once, business given up. C. J. Hopwood, 197 High Road, Lee, S.E.

**P** ROPRIETARY Medicine for Sale, easily worked with other business; grand chance to acquire old-established and steady-selling article at low price; owner going abroad; principals only. P. M., 216/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TENDERS.***3s. 6d. for 50 words; 6d. for every 10 words beyond.***PRESTON, LANCASHIRE.**

**T** ENDERS are invited for the purchase of the Business of W. J. T. Jackson, Chemist and Druggist; connection very old-established, and premises situated in principal street; tenders to be sent in on or before Tuesday, 23rd April. For full particulars apply, John C. Forrester, Chartered Accountant, 18 Acresfield, Bolton.

**LAMBETH VESTRY.**

TO CHEMICAL MANUFACTURERS AND DEALERS IN CHEMICALS.

**T** HE Vestry of the Parish of Lambeth hereby give notice that they are desirous of contracting for the following articles, viz.:—Pure Liquified Carbolic Acid, Commercial Liquid Carbolic Acid, Carbolic Powder, Chlorinated Lime, Sulphuric Acid, Sulphur of Commerce. Specifications and particulars, with forms of tender, can be obtained upon application to the Chief Inspector, at the Sanitary Offices, 333 Kennington Road, between the hours of 9 and 12 o'clock. Sealed tenders, directed to the Vestry, and marked "Tender for Disinfectants," must be delivered at the Vestry Hall not later than 4 o'clock on Thursday, May 2. The Vestry do not bind themselves to accept the lowest or any tender.

By Order,

HENRY J. SMITH, Clerk to the Vestry.

Vestry Hall, Kennington, April 9, 1895.

**TO LET.***3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**T** O Chemists.—To Let, good, well-lighted Basement premises; busy neighbourhood, near Liverpool Exchange; moderate rent; good opening. Apply, Wrigleys, 20 Hackins Hey, Liverpool.

**PARTNERSHIPS.***3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**A** DVERTISER, Metallurgical Analyst of considerable experience, wishes to purchase a Partnership in an Analytical and Pharmaceutical Business. Full particulars to "Steel," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SITUATIONS OPEN.***3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**G** OOD Counterman in good-class Cash trade. Apply, with photo and references, to the Bath Drug Company, 11 Abbey Churchyard, Bath.

**I** MEDIATELY, an Assistant, with Minor qualifications. State age, height, and salary required, to T. O. Grosvenor, 142 High Street, High Barnet.

**A** SSISTANT, not under 24. Apply, stating salary required (indoors), with references, &c., to Rastrick & Son, Pharmaceutical Chemists, King's Road, Southsea.

**A** SSISTANT (indoors); about 24; a neat and accurate Dispenser and good Counterman; preference given to one knowing Store trade. J. Chilwell, 452 Oxford Street, W.

**L** OCAL Traveller for General Country Business; smart, energetic, steady; about 25; one used to driving preferred. Adams, Wholesale Druggist and Drysalter, Mansfield.

**W** HOLESALE.—Wanted, a man of experience as Head Warehouseman, by The Apothecaries Hall of Ireland, Mary Street, Dublin. Apply by letter, giving full particulars.

**W** ANTED, a qualified Assistant. Give references, state age, when disengaged, and wages expected (enclose photo), to W. Proctor, 7 New Bridge Street, Newcastle-on-Tyne.

**W** ANTED, immediately, a competent Assistant, aged about 23, for good Country business. Apply, giving full particulars, and enclose carte if convenient to be returned, to Wilt-on Metcalfe, Pharmaceutical Chemist, 27 and 87 High Street, Chelmsford.

**W** ANTED immediately, qualified Assistant, aged about 24, for Light Retail and Dispensing; half-holiday weekly. State full particulars and references to Theekston, Chemist, New Brighton.

**S** OUTH COAST.—Wanted, Junior Assistant (outdoors). State age, height, experience, and salary required, with photo, to T. R., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.



# LOOK AHEAD

## WHEN YOU ARE PRODUCING A PRICE LIST OR CIRCULAR

By having your printed matter set the same size as the pages of the Winter and Summer Issues of "THE CHEMIST AND DRUGGIST" (9 inches deep  $\times$   $6\frac{1}{4}$  wide), you save the cost of resetting when you conclude, as eventually you must, that "THE CHEMIST AND DRUGGIST" system of distribution is the surest, cheapest, and least troublesome of all methods.

Does it pay a busy man to spend his time making up a doubtful selection of names from directories ?

Does it pay to draw names from directories at all, remembering that they are not special lists of buyers of your manufactures, but merely general address registers ?

Does it pay to have any considerable proportion of your circulars returned undelivered in consequence of above ?

Does it pay to lay out 50 per cent. more in postage alone than you need ?

Does it pay to incur the additional cost of wrappers and expense of addressing when these charges are unnecessary ?

Does it pay to employ your clerical staff, on the work of despatching circulars when this, and the attending disorganisation of your office, can be avoided ?

DOES IT PAY TO DO ANY OF THESE THINGS WHEN TIME AND MONEY CAN BE SAVED AND INCREASED EFFICIENCY BE ASSURED BY NOT DOING THEM ?

# NO

# YES

It pays to produce circulars the same size as "THE CHEMIST AND DRUGGIST" because the Winter and Summer Issues are distributed on the best selection of Members of the Trade.

It pays because the charges for distribution of circulars bound in these issues are approximately but one-third of the postage only of a distribution of your own.

It pays because there is positively no waste of circulars, none being returned through the post.

It pays because it is known absolutely that all recipients of these issues are buyers.

It pays because your circulars reach buyers, not as isolated and unrecommended printed matter, but under the attractive cover of a publication recommended by 37 years of unexampled utility.

See that your Printer has the size of "THE CHEMIST AND DRUGGIST" PAGE, 9 inches deep by  $6\frac{1}{4}$  wide.

The next Summer Number will be published on the 27th July, 1895.

For further particulars address

**THE PUBLISHER OF "THE CHEMIST AND DRUGGIST,"**  
42 CANNON STREET, LONDON, E.C.